# **AMERICAN RADIO RELAY LEAGUE**

# **SOUTHERN NEW JERSEY**

# SECTION EMERGENCY OPERATIONS PLAN



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# FORWORD

This Section Emergency Operations Plan is a guide for the amateur radio emergency communications for nine Counties of Southern New Jersey. It is intended as guide for each County Amateur Emergency Radio Service team to utilize in the development of a local plan. The plan is a living document that will be continually changing and updated based on the needs of the partner organizations served and changing technology of amateur radio.

The plan has been developed based on the ARES Strategic Plan, Emergency Coordinators Manual, and Federal Emergency Management Agency current documents. In addition, other American Radio Relay League Sections and emergency communications working groups were reviewed for the development. The development has been a team effort consisting of Tom Devine, WB2ALJ, Section Emergency Coordinator and consensus of the County Emergency Coordinators.

The Section Emergency Operations Plan has been approved by Tom Preiser, N2XW, Section Manager of Southern New Jersey Section of the Atlantic Division.

# PREFACE

HAM radio operators who read this, most likely volunteer to help people. We can give back to our communities in times of need because we have some unique equipment and skills to do so. With those goals in mind, it is an important task to make this Emergency Operations Plan (EOP) as professional, accurate, and as concise as possible to aid our organization in these modern days of Emergency Management.

We Help All Mankind during disasters.

# **INTRODUCTION**

The Southern New Jersey Section Emergency Operations Plan is designed to assist Federal Communication Commission (FCC) licensed amateurs radio operators of the nine counties of Southern New Jersey with guidelines for supporting partner organizations with emergency communications based on past practices learned by the Amateur Radio Emergency Service (ARES). The Amateur Radio Emergency Services (ARES) program has been sponsored by the American Radio Relay League (ARRL), the national non-profit association for amateur radio, since 1935.

#### **ARES MISSION STATEMENT**

The Amateur Radio Emergency Service is a program of the American Radio Relay League, that offers to its partners at all levels, trained Amateur Radio Service licensees who are skilled in the use of a wide range of emergency and disaster communications techniques and who are committed to supporting our partners' missions in service to the public. (ARES Strategic Plan)

#### **ARES VISION STATEMENT**

The Amateur Radio Emergency Service is comprised of organized, trained, qualified, and credentialed Amateur Radio operators who augment and support vital communications on behalf of the public through partner agencies and organizations during emergencies and disasters. The Amateur Radio Emergency Service, through its volunteer radio communications, strives to be an effective partner in emergency and disaster response, providing public service partners at all levels with radio communications expertise, capability, and capacity. These services are provided at no charge to the served organizations or communities.

The Amateur Radio Relay League has signed national memorandums of understanding with some organizations for local ARES groups to assist with emergency communications, if the local branch of these national service organizations desire assistance. Three notable examples of these agreements are:

**American Red Cross** – providing communication for "Health and Welfare" and logistical messages when commercial means of communications are not available or overwhelmed from shelters during Hurricane or Flood evacuations.

**Federal Emergency Management Agency (FEMA)** – provide radio communications for civil preparedness purposes only during period of local, regional, or national civil emergencies. These activities are referred to as Radio Amateur Civil Emergency Service (RACES) in Federal Communication Commission regulations. There activities are under of direction of FEMA on federal level, under the direction of State Police at State level, County Sherriff, or Office of Emergency Management at local level.

**National Weather Service (NWS)** - trains amateur radio operators through SKYWARN, server as weather observers, "Spotter", to report ground level weather conditions for regional offices. The regional NWS office for SNJ is in Mount Holly, NJ.

In addition, the nine local ARES groups can and have memorandums of understanding with other regional organizations, such as Southern Counties Emergency Repeater Network (SCERN) and local hospitals. (Appendix H)

Historically, amateur radio, ARES responses are related to 1) severe weather events, 2) support communications for missing person search teams, 3) provide emergency communications when commercial communications are interrupted or overwhelmed, and 4) provide communication for public and charitable organization activities. In the event of any type of disaster, this Emergency Operations Plan (EOP) has been developed to serve as a template for a general response if needed with little to no modification.

It should be noted that some of the subjects and procedures within this plan have not been established yet and may require additional developed if they are accepted. Therefore, this document should be considered as a continuous improvement guide for teams and the Section. Thus, this plan should also be constant updates based upon 'lessons learned' during exercises and emergency events, at least annually.

# THE AMATEUR'S CODE

The Radio Amateur is:

**CONSIDERATE** ~ never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL** ~ offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through with Amateur Radio in the United States is represented nationally and internationally.

**PROGRESSIVE** ~ with knowledge abreast of science, a well-built and efficient station and operation above reproach.

**FRIENDLY** ~ slow and patient operating when requested; friendly advice and counsel to beginners; kindly assistance, cooperation and consideration for the interests of others. These are the hallmark of the amateur spirt.

**BALANCED** ~ radio is an avocation, never interfering with the duties owed to family, job, school, or community.

**PATRIOTIC** ~ station and skill always ready for service to country and community.

Note: the original Amateur's Code was written in 1928 by Paul M. Segal, W9EEA.

# PURPOSE

Amateur Radio's primary emergency service missions are to provide supplemental communication channels, to tie disparate systems, and agencies together. Amateur Radio operators have a high degree of technical ability that can assist quickly in establishing or repairing communications facilities. Since each emergency is different, flexibility to provide an adequate response is a necessity.

This Emergency Operations Plan (EOP) is provided by the Southern New Jersey Section to assist its assets and members in setting up goals about an emergency event that would require the response of multiple counties of the SNJ Section. The plan establishes timelines to achieve those goals based on that threat. It is intended to set forth some, but not all actions that the Southern New Jersey Section assets can take to fulfill its role as set forth in the Memorandum of Understandings or other agreements in each perspective county. Additionally, it provides a format for effective and coordinated response by our counties ARES assets that would be impacted during a severe emergency event.

Having this information established prior to a large-scale event prevents the need to plan and coordinate logistics as a crisis is unfolding, when time is valuable, and situations are chaotic.

# SITUATIONS & ASSUMPTIONS

Hazards and disaster fall into three categories: natural, technological, and terroristic. Natural and technological disasters can include:

Earthquakes	Power Outages
Floods & Flash Floods	Communications/Internet Outages
Hurricanes	Major Fires & Wildfires
Ice/Snowstorms	Water System Contamination
Sever Winter Storms	Energy/Fuel Shortage
Mudflow/Landslide	Hazardous Material Incident
Aircraft Crash	Nuclear Incident

In some instances, such as weather-related problems, there may be advanced warning. Taking appropriate advanced actions can save lives and improve ARES effectiveness. Although many of these disasters listed above may not directly affect the entire section, there is a cascade effect that occurs because of these events on our infrastructure. The following are some affect examples:

SERVICES	AFFECT						
Transportation	• Inability to transport victims away from the affected area.						
	• Inability to get emergency services personnel into the affected area.						
Electrical	• Increased risk of fire & electrical shock.						
	Possible destruction of transportation due to downed lines across roads.						
Telecommunications	• Loss of contact with victims, service providers and family members.						
	• Systems overloaded due to volume of call from friends & family.						

It is necessary to make some assumptions to allow us to prepare for the unexpected situation.

The typical assumptions are:

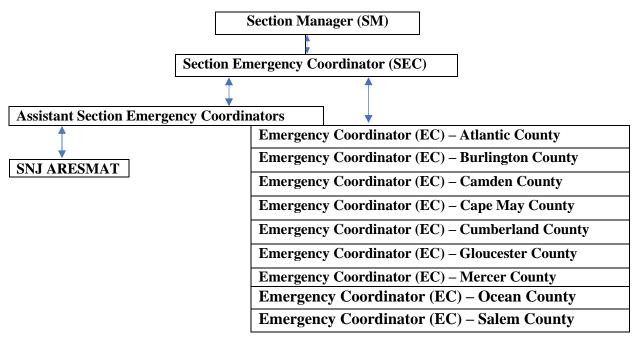
- A disaster will happen in your community, eventually.
- A disaster can and in many cases, does occur without warning.
- Disasters can occur at any time and families may be separated when it strikes.
- When a disaster occurs local emergency services will not be able to respond to every call for assistance.
- Some situations may cause parts of the communities to be isolated from others.
- Outside assistance will not be available for at least 72 hours.
- Telephones, Internet, and Cellular systems may become disrupted or overwhelmed.
- Electricity may be disrupted.
- Water system may be disrupted, or water may be undrinkable.
- Local emergency services and hospitals will not be capable of handling a sudden number of injured people (EPA Emergency Communications Plan, 2003).

# Amateur radio emergency communicators should always place safety first, their own personal and that of their families.

# **ORGANIZATION & RESPONSIBILITES**

The organizational structure for the amateur radio emergency communications focus on the County level with an Emergency Coordinator in charge for each of the nine counties in Southern New Jersey. They are coordinated by a Section Emergency Coordinator who is a pointed by the Southern New Jersey ARRL elected Section Manager. The Section Emergency Coordinator has Assistant Section Emergency Coordinators for supporting functions. The Emergency Coordinator has Assistant Emergency Coordinators for supporting functions.

# SECTION STRUCTURE FOR ARES



### **MEMBERS**

Any licensed amateur radio operator can be an ARES team member. Membership in the American Radio Relay League (ARRL) is <u>not</u> a requirement. ARES members are expected to participate in training above FCC licensing requirements. Joint ARES/RACES/AUXCOMM team members may be requested to participate in a background checks and additional specialized training depending on the RACES/AUXCOMM local agency requirements.

# **EMERGENCY COORDINATOR (EC)**

The Emergency Coordinator is the person responsible for the ARES or

ARES/RACES/AUXCOMM group at the county level. Working with local community officials, the Section Emergency Coordinator (SEC), and other field appointees, the EC leads the local ARES Group through the planning, preparation, and response phases.

#### Requirements for ECs:

Technician-class FCC license or higher; full ARRL membership, and achievement of Level 3 qualifications. (Appendix A)

Requirements for ECs:

- Promote and enhance the activities of the Amateur Radio Emergency Service (ARES) for the benefit of the public, as a voluntary, non-commercial communications service.
- Manage and coordinate the training, organization, and emergency participation of interested amateurs working in support of the communities, agencies, or functions designated by the SEC and SM.
- Establish visible working partnerships with federal, state, county, city governmental and/or private agencies in the ARES jurisdictional area that needs the services of ARES in emergencies.
- Identify and collaborate with local partners to assess how ARES can assist them with their mission, ensuring partners are aware of the limitations and capabilities of ARES.
- Develop detailed local operational plans, with partner agency officials in the jurisdiction, that sets forth precisely what expectations are during and ARES activation. Work jointly with partners to establish relationships based on mutual trust and respect. All matters involving recruitment and utilization of ARES participants are directed by the EC, in response to the needs assessed by the agency officials. Technical issues involving message format, security of message transmission, disaster welfare inquiry policies, and others, should be reviewed and expounded upon in the ARES detailed local operations plan.
- Establish local communications networks that run on a regular basis, and periodically test those networks by conducting realistic drills.
- Work with the SEC to identify potential local shortcomings and define resources that may need to be drawn from adjacent ARES groups in support of a local emergency or disaster.
- Establish an emergency traffic plan, with welfare traffic inclusive, utilizing the National Traffic System (NTS) as one active component for traffic handling. Establish an operational liaison with local and section nets, particularly for handing welfare traffic in emergency situations.
- Work with other Amateur Radio Public Service groups, organizations, or programs to establish relationships of mutual trust and respect, and a coordination mechanism for good of the public and Amateur Radio. The goal is to foster an efficient and effective Amateur Radio response overall.

- Work for growth in the local ARES program. Making it a stronger, more valuable resource, and hence able to meet more of the agencies' local needs.
- Provide timely reporting of emergency and public safety communications rendered in the Section for potential inclusion in ARRL media relations activities. (ARES Strategic Plan)
- Request assistance if team is overwhelmed, from SEC, ASEC or SM so that attempts can be coordinated for mutual assistance by Section leadership allowing EC to focus on existing emergency challenges.

# SECTION EMERGENCY COORDINATOR (SEC)

The Section Emergency Coordinator (SEC) is the assistant to the Section Manager (SM) for emergency preparedness. The SEC is appointed by the SM to administer all matters pertaining to emergency communications and the Amateur Radio Emergency Service (ARES) on a Section-wide basis. There is only one SEC appointed in each Section of the ARRL Field Organization.

#### Requirements for SEC:

Technician-class FCC license or higher; full ARRL membership, and achievement of Level 3 qualifications. (Appendix A)

#### Responsibilities for SEC:

- Promote and encourage the development of local ARES or joint ARES/RACES/AUXCOMM groups.
- Advise the SM on all Section emergency policy and planning, including the development of Section Emergency Communications Plan.
- Cooperate and coordinate with the Section Traffic Manager (STM) so the emergency nets and traffic nets properly route welfare traffic in disasters and emergencies. Cooperate and coordinate with other Section leadership officials.
- Recommend candidates for Emergency Coordinator appointments (and cancellations) to the Section Manager and determine area of jurisdiction of each amateur so appointed. Verify that candidates meet training requirements. At the SM's discretion, the SEC may be directly in charge of making (and canceling) such appointments. Promote ARES membership drives, meetings, activities, tests, procedures, etc., at the Section level.
- Serve in support of local ECs during a communication emergency; to ensure the local ECs have the necessary resources to sustain their mission.
- Maintain contact with other communication services and serve as liaison at the Section level with all agencies served in the public interest, particularly in connection with state government, emergency management officials, state, and regional Volunteer Organizations Active in Disaster (VOAD) organizations, and similar agencies. In states with multiple ARRL Sections, the SECs shall work as a team to develop and maintain an appropriate ARES Emergency Communications Plan in conjunction with the state officials. Maintain cooperation with the State Government Liaison.
- Provide Section ARES activities reports in a timely manner to the SM and ARRL Headquarters. (ARES Strategic Plan)
- Maintain contact with Mid-Atlantic Amateur Radio Emergency Assistance Mutual Assistance Team (MA-ARESMAT) for planning sharing of resources, operators and equipment when needed by other Sections and available to be released with the approval of Section Manager.

#### ASSISTANT SECTION EMERGENCY COORDINATOR (ASEC)

#### Requirements for ASEC:

Technician-class FCC license or higher; full ARRL membership, and achievement of Level 3 qualifications. (Appendix A)

#### Responsibilities for ASEC:

- May serve as a general assistant to the Section Emergency Coordinator, or as a specialist. That is, the ASEC may assist the SEC with general leadership matters as the SEC's alternate or the ASEC may be assigned to handle a specific important function that does not fall within the scope of the duties of the Section Emergency Coordinator's other assistants. The ASEC will act as the SEC in his or her absence, or in emergency response operations to maintain continuity of leadership when 24-hour activity requires multiple shifts.
- At the Section Manger's discretion, the ASEC may be designated as the recommended successor if the incumbent Section Emergency Coordinator resigns or is otherwise unable to finish the term of office.
- Should be familiar with the Official Appointment Description for the ARRL Section Emergency Coordinator, which contains the fundamental responsibilities of the SEC. (ARES Strategic Plan)

# PUBLIC INFORMATION OFFICER (PIO)

The Public Information Officer (PIO) maintains contact with other ARRL officials in the local area particularly the ECs. Collaborates with the Section Public Information Coordinator (PIC) in the preparation of emergency response public relations kits, including general brochures on Amateur Radio and specific information about local clubs and ARES groups. During emergencies, the public relation kits should be made available to reporters at the scene or at a command post. The PIO, if available, should be the spokesperson for Amateur Radio at an emergency event. The PIC and PIOs are appointed by the Section Manager.

#### **INCIDENT TYPES**

Incidents may be categorized or typed, to make decisions about resource requirements. Incident types are based on the 3 levels of complexity and dependent on the requirements during the actual incident.

NOTE: A typical Type 3 Incident would not require this EOP to be put into effect.

- **Type 3 Incident:** (*Lowest*) Not a SNJ Section level event. The incident can be handled with one or more resources/personnel contained within an individual county. This type of incident does not require a multi-county response and can be handled within the county infrastructure by the county ARES EC and associated trained ARES communications operators.
- **Type 2 Incident:** This type of incident extends beyond the capabilities of a county ARES control and is expected to go into multiple operational periods or into multiple counties simultaneously. This type of incident requires the response of resources out of the local area. This could be either gear or personnel. Most likely a scenario where there are <u>not</u> enough personnel on the county level to man a station or stations for extended periods of time, a large-scale event over a large geographical area, or support equipment is needed, not available on the county level. If assistance is needed local leadership shall contact the SEC, ASEC, or SM. After the event, report it to SEC on monthly report with participants & hours.
- **Type 1 Incident:** (*Major*) This type of incident extends beyond the capabilities of the SNJ Section and individual counties within the section. This type of incident requires the assistance of the "Outside Volunteer Units" most likely through Section ARES Mutual Assistance Team (ARESMAT) or beyond through regional ARESMAT and/or ARRL headquarters. The personnel within the SNJ Section are <u>not</u> capable of sustained operations in the scale of incident that is necessary to accomplish the goals. Example: Super-storm or hurricane causing evaluations and sheltering. The local ECs communicate their needs to SEC and/or SM who seeks the resources for them.

# **CONCEPTS OF OPERATION**

#### General

The role of ARES is that of a corps of volunteer trained amateur radio operators, organized to assist in public service and emergency communications. It must have an effective organization to develop and maintain the necessary plans, equipment, and personnel to achieve its objective. It is understood that on a day-to-day basis, its volunteers have jobs, lives, and other responsibilities. It is up to the SNJ Section to administer an active, on-going emergency preparedness program at the section level, and make sure its personnel are familiar with this program.

The SNJ Section will ascertain, through contact with county ARES EC's and their personnel, the emergency needs of its volunteers in the case of a large scale, multi-county event. It will then assess its resources and facilitate the acquisition, application, and coordination of those resources throughout the affected counties. The SNJ Section can also provide direct guidance and assistance

to the county ARES level in helping them develop an effective ARES response plan and can channel assistance down to the county level for that purpose. In a major emergency, the SNJ Section ensures a coordinated response through the combined efforts of State and County ARES volunteers, as well as the public and private sector organizations.

#### **Priorities in a Disaster**

#### <u>Safety</u>

Protection of ARES members and assets from the effects of a disaster are the ultimate priority. The expectation is that the volunteer would be prepared to be self-reliant after the initial incident for the volunteer to provide services as effectively and with as little interruption as possible for themselves or their family. ARES volunteers are in <u>no</u> way expected to put themselves at risk at any time during their deployment. They would <u>not</u> be expected to volunteer if they themselves have circumstances personally that need to be attended to during an event Volunteers may be limitedby several factors:

- Family needs, such as medical issues, possible evacuation, and/or damage to home/property.
- Inability of volunteers to be self-sufficient for more than a few days without additional supplies of food, water, medical, and shelter resources.
- Shortage of critical drugs and medicines the volunteer may need.
- Shortage of trained response personnel and equipment to respond to requests for assistance. These shortages may be felt immediately due to an increased need for twenty-four-hour operations sustained over a long period of time.
- Damage to lifelines such as transportation routes, utilities, petroleum pipelines, and gas stations.

#### **Provide Communications**

To provide emergency communication services to our served agencies, public and private, through use of our available technologies within the limits of our federal licensure. Those agencies including, but not limited to this list: Red Cross, medical facilities, shelters, County, and State EOC's and possibly some CERT groups.

#### Situational Assessments

The first step in any emergency response plan, is to assess the potential impact of the damage that may be caused by the disaster and the capacity of the affected served agencies to meet its immediate needs. It should be noted, it is not out of the realm of possibilities for a large-scale event to take place and not affect the communications infrastructure whatsoever.

However, experience shows that a poorly conducted assessment is likely to lead to poor planning decisions and an inadequate response. This often has consequences beyond the emergency phase and can directly affect our support efforts when it comes time to respond in the recovery phase.

Assessments should be done using the following format in pre-and post-event planning:

• **Rapid assessment:** Rapid assessment provides information on needs, possible courses of action, and resource requirements. In pre-event planning, the rapid assessment would be what determines the initial response. More detailed assessments can take place during the deployment process. This allows for a rapid but *controlled* and *calculated* response.

- **Detailed assessment**: A more detailed assessment is carried out after a rapid assessment if the situation is changing, and more information is needed.
- **Continual assessment:** Situations can evolve rapidly and include unexpected effects, such as further communication infrastructure breakdown. Assessment should therefore be an ongoing process throughout the pre-emergency phase and during post-emergency deployment phase. Information is continually updated so that the response can be adapted to evolving needs.

Pre-event assessment consists of *Monitoring*, which is a continuous observation of the potential events progress. *Review*, which is a comprehensive examination of the information gained from the monitoring by several decision-making position individuals. *Evaluation*, which is the independent, objective feedback by the individuals from the review process.

Since weather related events are a primary threat to the coastal areas of New Jersey including the Delaware River area. Every county in the Southern New Jersey Section has been identified as vulnerable to storm surge and/or flooding, if they are directly impacted by a hurricane that traverses near coastal New Jersey. (Appendix D)

An additional concern is the hurricane season overlaps with the tourist season in New Jersey. Much of our area of operations includes barrier islands and locations along the shore, adding to the possible number of people in areas that by nature are difficult to evacuate in a timely manner. Some of the most crowded roads during early hurricane season are the same roads that would be used for evacuations during a severe weather event. There is a severe limit to the number of bridges leading from the multiple barrier islands and the mainland.

Tourists visiting the New Jersey shore that do not live within driving distance would certainly add to the number of people who would need to be relocated to shelters, if shelters were needed and established. It would be assumed that airports would also be shut down not allowing those tourists to leave the area. There are certain roads designated as Coastal Evacuation Routes in NJ. (Appendix F)

The pre-event assessments need to include input from multiple individuals within the SNJ Section organization who have authority to make decisions. More input leads to better assessments.

# **Determining Communications Needs**

1. **Pre-event phase**:

Determining the communications needs during the pre-event phase may be difficult. It is unknown what the exact impacts will be and how severe. The determination should be made using two levels of assessment. The best-case scenario and worst-case scenario. The worst-case scenario <u>MUST</u> include possible catastrophic impact to the SNJ Section's own communications infrastructure.

2. Post-event phase:

Determining the communications needs in the post-event phase will be based on the overall impact to the general population communications infrastructure and more importantly, the impact to the SNJ Section's communications infrastructure. Agencies that require our response will be the ones who determine what type of support they need.

Communications needs should follow the structure outlined in the field Communications Structure and plan frequencies of this documents whenever possible. (Appendix G)

#### Contact Outside Volunteer Units (ARESMAT)

If your local team becomes "overwhelmed" that it does not have enough resources, operators or equipment, the SNJ Section process should be used:

- Local Emergency Coordinator or designated assistant should contact the Section Emergency Coordinator if SEC is not available contact the Assistant Section Emergency Coordinator ARESMAT and if the ASEC-ARESMAT is not available the Section Manager should be contacted with the request for assistance.
- The Section leader will coordinate attempts to arrange mutual assistance, allowing local team(s) to focus on emergency event. The first choice for mutual assistance in SNJ Section will be our SNJ ARESMAT volunteers. If SNJ ARESMAT is already involved or cannot be released from local teams, the Section leader will seek additional resources through the Mid-Atlantic ARESMAT working group.
- When as "Request for Resources" is made to SNJ leadership the initial information be collected utilizing the MA-ARESMAT "Request for Resources" form, copy in Appendix N. The rationale for using the MA-ARESMAT form are: 1) only gathering information once so that local team is not unnecessarily interrupted, 2) assist for coordination with SNJ Section with ECs, SEC, ASEC- ARESMAT, and SM, 3) provide data necessary for coordination with other partner Sections within MA-ARESMAT, and 4) support "Ham Aid" equipment requests with ARRL Headquarters. Please review the "Request for Resources" and ask questions prior to needing it. Before any SNJ members are sent to another Section the SNJ Section Manager shall be consulted for approval. Before any Atlantic Division members are sent to another Division, Atlantic Division leadership shall be informed.

SNJ Section is fortunate to have a team of volunteers serving on SNJ Section ARESMAT. Thank you to the SNJ ARESMAT members and leadership serving and additional are welcome at any time.

Current Section Leadership for requesting mutual assistance are:

1<sup>st</sup> ~ SEC – Tom – WB2ALJ: C/T; 908-399-7573 or Typically monitors OCARES Repeaters.

- 2<sup>nd</sup> ~ ASEC-ARESMAT Tim NJ2N: C; 732-996-8913 or Typically monitors OCARES Repeaters.
- $3^{rd} \sim SM Tom N2XW: C/T; 609-618-0224.$

#### **Establish Volunteer Support Services**

- Is there a way to keep the volunteers with food and water if they are not deployed at a shelter that provides both?
- Do you have ARES personnel who can be assigned to distribute water and food to other ARES volunteers in your group?

#### **Recovery**

• Responsibility for breaking down the site and securing the equipment.

# **EMERGENCY COMMUNICATIONS**

Emergency communications typically consist of three primary elements:

- 1. **Operability**—The ability of an agency or group to establish and sustain communications in support of mission operations.
- 2. **Interoperability**—The ability of an agency or group to communicate among served agencies, using a variety of frequency bands and modes as needed and as authorized. System operability is required for system interoperability.
- 3. **Continuity of Communications**—The ability to maintain those communications in the event of damage to or destruction of the primary infrastructure.

#### **Frequency Usage Structure**

Communications structure: Bottom Up - Order of Simplicity that is use Simplex, UHF, VHF, & HF first, whenever possible. The move up to local county repeaters as coverage requires. Eventually, utilize C4FM network system as coverage of communications requires. The use of the linked C4FM system during a wide scale incident should be limited to a designated purpose of coordination between the SNJ Section ARES hierarchy and ARES county operations (NCS) in the affected areas of the incident. This is dependent on conditions and other factors suchas locations and coverage. *The frequency usage structure diagram in* (Appendix G) *should be followed whenever possible to maintain a flow of information through the area.* 

### **Traffic Handling:**

Formal messages in ICS-213 format are normally used for most served agencies, while some have their own message forms. However, at the county and city level, the local served agencies may already have a message format that is built into their standard operating procedures. In those instances, it is the responsibility of the EC to establish an acceptable format that will allow efficient message handling during the entire course of the event.

Regardless of the format used during an incident, the ARRL Radiogram message format will be used for traffic directly inserted into the National Traffic System (NTS), such as "Health & Welfare" inquires. (Appendix J, & K)

Traffic should <u>not</u> be handled on the primary frequency of an Emergency Net, except during periods of light activity or if secondary frequencies are unavailable or have no coverage. If the net is handling much traffic off the primary frequency, the NCS or Net Manager should consider designating the separate frequency a secondary net for use by stations handling this traffic. If a waiting line develops on the secondary net additional frequencies may be added to accept the overflow if available and they can be staffed.

Digital traffic handling provides higher accuracy and efficiency of time, so should be used whenever possible.

ARES members should already be trained and practiced in message handling if they are not the skill should be deployed. Please use caution concerning personal privacy, especially with injuries and medical information, it is the law. Some Traffic handling information and references are available in Appendix: J, K, & L, plus ARES Manual Field Resources Manual.

#### Alternate Modes and Methods of Communications:

When traditional methods (VHF/UHF/HF Simplex, repeater, & linked system) of communications break down, we have alternative methods at our disposal. It is highly suggested that your specific team of core individuals test and be practiced on the use of these alternate methods.

#### Field capabilities would determine which alternate modes can be used during deployment.

#### **APRS (Automatic Packet Reporting System):**

APRS is a system for real time digital communications of information of immediate value in the given local area. APRS is also capable of transmitting a wide variety of data, including weather reports, short text messages directly to specific recipients and short Emails.

#### Narrow Bandwidth Emergency Message System (NBEMS):

Narrow Band Emergency Messaging Software (NBEMS) is an Open-Source software suite that allows amateur radio operators to reliably send and receive data using nearly any computer (Windows, Mac, and Linux) and any analog radio without requiring a dedicated digital infrastructure or specialized modem hardware. NBEMS works on both VHF/UHF FM and on HF.

NBEMS is a robust protocol that is HIGHLY resistant to interference and weak signals. Its advantage lies in being able to send radiogram messages much faster and more reliably than voice methods. NBEMS can be used using cellular phone, tablets, and computer through audio coupling or interface connections.

#### <u>Winlink</u>

Winlink is a powerful tool during emergency events for sending message, especially large volumes of data, since permit and RF link to the Internet. The linkage can enable e-mail message to areas outside the effected event area to serve partner with operational Internet. Refer to Section frequency list for VHF sites and digipeaters. (Some are only indicated in Winlink EMCOMM list.)

#### NVIS (Near Vertical Incidence Skywave): For HF

NVIS, is a skywave radio-wave propagation path that provides usable signals in the range between ground wave and conventional skywave distances—usually 30–400 miles (50–650 km). There is no fundamental difference between NVIS and conventional skywave propagation; the practical distinction arises solely from different desirable radiation patterns of the antennas (near vertical for NVIS, near horizontal for conventional long-range skywave propagation).

#### **DSTAR data and DRATS:**

D-RATS is a free, easy to use, multi-platform program for data communications with D-STAR devices and/or through the Internet. The software can be run on Windows, MacOS and Linux/UNIX computers. D-RATS provides many functions including chat dialog box and the ability to send Radiogram messages quickly.

#### Text Messaging and Cellular Systems:

During periods of heavy traffic or bad reception, if the cell system is up and usable, it can be used as a last resort. Remember we are serving a function as communicators no matter what method we use to fill that role. APRS is also capable of sending short messages.

#### **MESH Network:**

Mesh networks are self-contained wireless computer networks that are capable of interconnections repeaters, message systems, VOIP, cameras, and links to the Internet. These networks operate on amateur radio frequencies at 3.4 and 5.8 GHZ. There are multiple emergency communications applications being used and more being developed. AREDN is a source for future information.

ARES members should already be familiar with and practiced in alternate modes of communications available to us if they are to be deployed. However, these alternate mode and others may be future options.

# **Continuity of Operations Plan (COOP):**

A major incident or emergency could include injury or death of key personnel and the partial or complete destruction of established facilities. Our organization being mostly volunteers also must understand that we ourselves in some incidents may not be able to help either.

Continuity of operations is particularly important with respect to the support we provide to our partners. A key aspect of this support is the continued capability to communicate official requests, situation reports, and another emergency information throughout the event. Having enough people to provide adequate coverage is especially important. This is where the idea of "assistant" positions becomes important in the ARES infrastructure.

A Continuity of Operations Plan (COOP) according to basic standards is needed. (Appendix I)

To ensure continuity of our group, the following elements need to be addressed:

- Line of succession (minimum three "deep") for essential positions.
- Pre-delegation of emergency roles to key personnel.
- Pool of trained operators on the county level.
- Usage of alternative modes and methods of communications.
- Training.

### National Incident Management System (NIMS)

National Incident Management System (NIMS) provides a common, nationwide approach to enable the whole community to work together to manage all threats and hazards. NIMS applies to all incidents, regardless of cause, size, location, or complexity. (Appendix M)

During any emergency or disaster, the National Incident Management System (NIMS) will be utilized by most if not all emergency response agencies to manage an emergency incident/disaster or a non-emergency planned event. The Incident Command System structure used for emergency and disaster management. This is the primary structure of most partner agencies and used when multiple agencies are involved. It is the rationale for be familiar with IS courses, formerly ICS course. (Appendix O)

ARES members should already be familiar with NIMS and at least have an IS-100 and IS-200 certification.

#### NETS

Nets are established to control the radio traffic on any given frequency. There can be multiple nets in operation for a given disaster, each with a specific purpose, and each with a Net Control Station (NCS).

#### **Role of Net Control**

The role of the NCS is vital to the efficient and smooth traffic handling and operation required during a disaster. Role of the NCS:

- The NCS is in-charge of the net while the net is in session. He or she is responsible for controlling who uses the frequency and when they pass traffic.
- NCS must keep track of which resources are on the net and who has cleared the channel. NCS is also responsible for knowing what traffic each person can deal with (sending HF traffic to a Technician will not work).
- In medium and large operations, a backup NCS and a person to log are necessary.

- Keep a written record of the incident and all traffic passed. This does not mean a copy of all formal traffic, simply an overview of the message ("Communications Log" role).
- Make ALL instructions clear and concise, using as few words as possible.
- Use tactical call signs. If participants do not follow your lead, only recognize those using tactical call signs (obviously this does not apply if they have emergency traffic).
- Different nets may be established for different traffic. Should someone try to pass traffic that should be on another net, refer them to the correct net. Nets can either be "open" or "directed".
- Always have a member(s) of the net available to take over as NCS, if current NCS leaves.
- Use liaison stations whenever possible with other nets, such as Section Traffic Net, and others.

#### **Types of Nets**

**Open Net** ~ Open nets do not have a Net Control Station and participants follow good amateur practice in taking turns at communicating. Nets for public service communications, such as parades, can usually be an open net.

**Directed Net** ~ A directed net has a Net Control Station assigned who controls and "directs" the flow of traffic through the net. Most emergency nets are directed nets. During an emergency it is essential that NCS is assigned due to the volume of traffic.

**Tactical Net** A tactical net is the primary coordination net for the event or for an agency being served. These nets should use tactical call signs, identifying the location or function of that site: i.e., shelter, fire control, EOC, etc. Amateur call signs are used at the end of transmissions only, as required by FCC regulations (traffic should short and concise and should not exceed the 10-minute rule for identification). The use of tactical call signs prevents confusion when operators change. Tactical call signs will be assigned by net control. These nets are restricted to traffic for the event only.

**Resource/Logistics Net** ~ A resource or logistics net is for acquiring volunteers for the event and making assignments for various operators. A resource net could be a District level net, coordinating the response of amateurs from other Districts to respond to the affected area. When establishing a resource net consider using a linked repeater system that covers a wide area, or an HF frequency. **Traffic Net** ~ A traffic net is for passing formal (normally written) traffic. These are directed nets and traffic can either be passed on the net frequency or sent off to another frequency. During a disaster there may be more than one traffic net, one may be local, and one may be on HF to pass traffic into and out of the affected area. Packet stations should be established to handle welfare traffic. A list of established voice traffic nets is contained in the Annex

Admin Net ~ An administration net can be established to coordinate the response and relief of ARES volunteers, arrange for equipment or other ARES resources to support the function of ARES. This type of net would normally be for the EC and AEC's. If available 70cm repeaters are ideal. Hospital Emergency Amateur Radio Service (HEARS) ~ A HEARS net is a directed net that handles communications related to hospital operations. Hospital statistics or needs and specific patient information is passed on this net. The HEARS NCS will check in with the county net and information is passed to participating hospitals. Communications within each hospital will be transmitted by simplex. Hospital Emergency Amateur Radio Operators who dedicate their time and equipment to communicate for the local hospitals in times of disaster or communications failure. These operators receive specialized training in emergency medical communications. Inter- and intracommunications are provided at each of the participating hospitals. Specific patient information is received from the scene and forwarded to the necessary hospital personnel. Hospital status and needs are also reported to the county EOC. All communications must comply with all hospital, personal privacy, and FCC regulations.

**Other Nets** ~ Other nets may be established to support functions, within emergency response, such as Community Emergency Response Teams (CERT), Family Radios used by shelter personnel or tactical teams.

#### **Roles and Responsibilities - During Large-Scale Event**

This serves as a synopsis for reference during an emergency.

- 1. Southern New Jersey Section Leadership
  - Coordinate contact with appropriate SNJ ARES leadership personnel SEC's and ASEC's.
  - Coordinate contact with appropriate ARES county EC's and AEC's.
  - Schedule conference calls conferences to relay information and get feedback if needed.
  - Monitor and participate in State Office of Emergency nets, as necessary.
  - Monitor ARRL Bulletins, as necessary.
  - Arrange for requested additional resources, such as equipment and/or operators, through
    - Section AREMAT
    - o Regional Mid-Atlantic- ARESMAT or
    - ARRL Headquarters
  - ASEC will lead the SNJ ARESMAT.

#### 2. County ARES leadership (EC's and AEC's)

- Responsible for the county's emergency planning and response decisions.
- Distribute weather reports to your key members.
- Designate roles for individuals within your group as necessary.
- Keep Section leadership advised of status on a regular basis.
- Request aid from section leadership (personnel and/or equipment) through SEC or SM.
- Ensure maintenance of agreements with county, private sector partners, and non-profits.
- Make sure members are familiar with the ARES Manual.
- Make sure members are familiar with NIMS and ICS.
- Maintain current list of resources within your county.
- After the event record it and participation of members in ARES Connect.

#### 3. Section Level Weather Coordinator or other NWS weather personnel and liaisons.

- Develop weather reports based on National Hurricane Center (NHC) and National Weather Service forecasts specifically for accuracy within for our area of operations (SNJ Section).
- Coordinate and distribute weather information and reports regularly, specifically through email to section leadership personnel.
- Distribute weather information and reports regularly through social media (Facebook and Twitter accounts).
- Report "ground truth conditions" collected locally to the regional NWS office, Mount Holly.

#### 4. Expert in designated field

• Outside the prevue of a weather event and depending on the type and severity of the anticipated incident, outside experts may need to be consulted to lend guidance.

#### **SPECIFIC SITUATIONS**

#### Shelter Operations:

**Staffing** ~ Shelter operations should be staffed with a minimum of two people: one operating the radio and the other acting as runner and logger. Ideally, both operators can rotate roles to provide each other relief. Shelter operations can usually be handled on VHF secondary frequencies with backup. It may be advisable for operators to have access to FRS, GMRS or other frequencies used by shelter staffs, if the staffing partner or CERT volunteers use radios within the shelter facility. (*FRS & GMRS may have limitations with interference and distance at some location.*)

**Duties** ~ Operator's role will focus on providing communications:

- Between Shelter Manager and organization in charge of shelter, typically Red Cross, if the normal communications channels are <u>not</u> operating or overloaded. Communications would be for logistical supplies, equipment needs, personnel request and assistance.Typically using partner/agency or ICS-213 message forms.
- Between Shelter Manager and ARES/RACES net control for emergency services in the event of normal telecommunications disruption.
- With shelter staff or volunteers, typically using FRS frequencies.
- Handle "Health & Welfare" or logistical messages for sheltered individuals, utilizing either ARRL message forms with numbered message format or similar served agency forms.

Operators should focus on emergency communications, thus avoiding accepting other duties that hinder effective emergency communications. Shelters are good locations for digital data message handing for "Health & Welfare" traffic.

<u>Weather/SKYWARN</u> ~ SKYWARN operations can usually be staffed by an operator training in SKYWWARN procedures from any location that has access to weather information and can send weather "Spotter" reports. During a significant weather event, the County level net control station ideally would be monitoring the NWS reports, warnings, bulletins, and radar, plus collect "Spotter" information for relay to the Mount Holly regional NWS facility. SKYWARN operations can usually be handled with VHF secondary frequency if there is a need to keep primary frequencies open. *{County level reporting provide NWS a local contact for additional details.}* **Hospital Emergency Amateur Radio Service** ~ HEARS operations are directed net that handles communications related to hospital operations. Hospital statistics or needs and specific patient

information are passed, requiring a significant concern for privacy of patient information. Operators are usually especially trained in privacy issues. Some considerations are:

- Select operators who have been especially trained in privacy issues for hospitals.
- At no time should patients, individuals name or title, be communicated.
- Consider digital communications modes for privacy and movement of large amounts of data with the highest accuracy.

**Search & Rescue** ~ Search and rescue operations frequently are conducted in remote area, where communications may be on the agency's frequencies, different or multiple repeaters, or simplex frequencies. Some considerations are:

- Be prepared physically to navigate unexpected terrain, changing weather conditions, and mentally for what may be found, deceased person.
- Usually, communications will be tactical in nature using a single net with multiple staff.
- If possible, study topographical maps of the search area to determine potential communications challenges and provide copies of search area maps to net control for tracking search teams.
- Always have an alternate communications channel plan before operating.
- Prior to entering search areas team communicators should indicate to net control; area being searched, number of searchers, and tracking dogs. When leaving search area count and report number of searchers and tracking dogs. Net control should record and verify the information of 'in and out' are the same. {Leave no searcher unaccounted for.}
- Be prepared to paper log information or evidence found including description, time, and location (GPS coordinates, if available) APRS is useful for tracking search teams and reporting clues to jurisdictional authorities.

- If working with organized search & rescue team(s) with their own communication system attempt to arrange for their leaders to decide information to be sent to net control before amateur operator provides it to net control.
- Attempt to organize assets available at recon area of interest for Net control in advance of searching an area, examples verify map & terrain, handle private property questions.

**RACES/AUXCOMM** ~ When activated for Radio Amateur Civil Emergency or Auxiliary Communications duty operators are serving a Federal, State, or County agency. The operators will be utilizing the agency's procedures, frequencies, and message handing protocol. Some for the RACES/AUXCOMM assignments require prior training and credentials, such as radiation exposure training prior to activation duties.

**Public Service Events** ~ Public service communications are provided to non-profit organizations sponsoring a public event. These events are planned and do not require any emergency management. They usually require some advanced planning, the larger the event the more planning required. Planning will determine the type of communications needed, best frequencies, number of operators, and other consideration. However, you should always remember amateur radio operators are there for the unexpected; incidents, lost child, or call for assistance. Be aware and be visible to the public.

**Shadowing Operations** ~ Shadowing operations occur when an amateur radio operator is providing a communications channel between the person (principal or key partner representative) and other stations on the net. The operator has primary two duties; 1) stick like glue to the person being shadowed without getting in their way, and 2) to be prepared to communicate successfully from any place that your "key partner representative" might travel. Some things to consider for shadowing are:

- Is a HT with several watts of power, earphone, and spare batteries enough?
- If traveling in vehicle, is there a need for external antenna -mag-mount, power connection what voltage/type or spare battery Gel Cell, appropriate clothing, and special safety concerns.

**Liaison/Relay Operations** ~ During any events local teams should consider establishing a Liaison/Relay station, typically stationery/home based, that can provide needed services such as:

- Monitor and relay information other key frequencies or nets such as EOC, and Section Traffic Net.
- Provide logistical support, such as researching information, contacting served agencies or local authorities by telephone, and/or calling up additional resources. *Note: Ideal role for team member who is unable to be in field environment.*

## POTENTIAL CHALLENGES & FUTURE CONSIDERATIONS

This section could have the titled 'What If'? The following are challenges identified during the preparation of this document and its initial review by SNJ Section Emergency Coordinators, Assistant Emergency Coordinators, Assistant Section Emergency Coordinators, Section Emergency Coordinator and Section Manager for future consideration. That is should the items be address, if so in what priority. These are stated for continuous improvement of emergency communications, rather than negative feedback of the plan.

POTENTIAL CHALLENGES	CONSIDERATIONS
• Have multiple frequencies been tested between shelters/hospital and net control?	<ul> <li>Is simplex an alternative?</li> <li>Is it possible to relay message on simplex?</li> <li>Test the multiple frequencies annually.</li> </ul>
• Activation plan for a total telecommunication disruption?	<ul> <li>Establish single repeater and simplex frequency to monitor in the event of disruption?</li> <li>Test the activation plan annually.</li> </ul>
• Expand digital message handing and modes since it fasterand more accurate than voice messages?	<ul> <li>Expanding NBEMS, and/or Winlinkused by Counties, Section, and Division.</li> </ul>
• Expand the application FMEA forms in exercises and reporting.	Expanding applications and usage if ICS forms, manual & digital formats.

# **IMPLEMENTATION & TRAINING**

In order, for this plan to work we need to make certain requirements regarding the training of ARES personnel. It is critical to the success of this plan that these requirements regarding the training are correct for each county.

If a county cannot fulfill these goals at this time, training should be planned and accomplished within that county to be included in a wide area response. Contact the SEC for assistance.

- All county ARES personnel are familiar with the ARES Manual.
- All county ARES personnel are trained in ICS and NIMS coursed; IS-100, IS-200, IS-700, and IS-800.
- Each county ARES has an Emergency Coordinator (active and available).
- Each county ARES has at least one Assistant Emergency Coordinator.
- Each county knows its role and responsibilities for preparedness, response, and recovery (based on the ARES Manual and their specific county needs).
- Each county ARES maintains a state of readiness and make its members aware of potential threats and actual threats as they develop.
- Each county ARES practices, trains, and takes part in at least one drill a year.
- We are beholden to our counties and served agencies and therefore may not always have the personnel or equipment to coordinate with a full SNJ Section response.
- Some ARES members may have emergencies of their own in the event of a natural disaster, therefore may not be available.

In addition, it is desired that the local ECs cooperate with the SEC in development of a Sectionwide Simulated Emergency Test annual in the Fall. If a significant Section-wide event occurs, the Section Manager could wave that year's SET. Using the significant Section-wide event lessons learned for continuous improvement.

All training should be recorded as an ARES Connect Event with participants indicated. Since the Section Manager has the ultimate authority over training, the Section Manager can change requirements as warranted.

Local ECs should communicate any training needs beyond their team's instructional capability to the SEC for possible assistance of the SNJ Instructional Team.

#### **Document Control & Maintenance**

#### **Document Control Responsibilities:**

Each iteration of the EOP will be accompanied by a revision number (version number) for easy authentication.

#### Section Emergency Operations Plan Recommendation and Approval

Recommended by:

Thomas Devine – WB2ALJ

Thomas Devine – WB2ALJ Section Emergency Coordinator Date: May 18, 2022. Approved by:

Thomas Preiser – N2XW

Thomas Preiser – N2XW Section Manager Date: May 18, 2022.

 $R - 05/18/2021 \sim WB2ALJ$ 

# List of Acronym Definitions

- AEC=Assistant Emergency Coordinator
- ARES = Amateur Radio Emergency Service
- ARESMAT = ARES Mutual Assistance Teams
- ASEC = Assistant Section Emergency Coordinator
- ARRL = American Radio Relay League
- EC = Emergency Coordinator
- EOC = Emergency Operations Center
- EOP = Emergency Operations Plan
- ETTE = Estimated Time to Event
- FEMA = Federal Emergency Management Agency
- ICS = Incident Command Structure
- MA-ARESMAT = Mid-Atlantic ARES Mutual Assistance Team
- MARS = Military Auxiliary Radio System
- MOU = Memorandum of Understanding
- NCS = Net Control Station
- NIMS = National Incident Management System
- OEM = Office of Emergency Management
- SEC = Section Emergency Coordinator
- SCERN = Southern Counties Emergency Repeater Network
- SM = Section manager
- SJWRA = South Jersey Weather Readiness Alliance
- SNJ = Southern New Jersey

# **APPENDIX A: LEVELS OF QUALIFICATIONS**

Based on the ARES Strategic Plan, all participants shall have a valid Amateur Radio license issued by the Federal Communications Commission. All participants shall have an interest in selfimprovement and maintaining standards of excellence.

Since many of the partner agencies that ARES serves have mandates and structured training programs where all participants receive the same training and, when deployed, would be qualified to assume any position. Therefore, changes have been made to resolve this issue identified by our partners about inconsistent training requirements required of ARES participants. Such training will be measurable and recognized across a broad spectrum of the county by served partners.

Three levels of training will allow ARES participants to enter the program and migrate to higher levels of qualifications and service.

- Level 1 ~ This is the entry level for those new to Amateurs Radio or emergency communications. This introductory training is conducted by the local ARES group to meet their needs and those of their served agency or partners. This training could be formal or informal and would introduce the ARES participant to the fundamentals of emergency communications and provide instruction on how participants are to conduct themselves while deployed.
- Level 2 ~ To qualify for this level participants shall have completed the following courses: ARRL's EC-001 "Introduction to Amateur Radio Emergency Communications" (or current equivalent) and FEMA IS-100, IS-200, IS-700 and IS-800. Participants are also encouraged to take advantage of training opportunities available through partners to enhance their knowledge and skill set.
- Level 3 ~ This level of training prepares ARES participants to take on leadership positions such as EC, ADC, DEC, ASEC, and SEC, and other designated positions in the ARES program. Participants are required to complete ARRL's EC-016, "Emergency Communications for Management" along with FEMA courses IS-300 and IS-400. Participants are strongly encouraged to complete the FEMA Leadership Development series of courses IS-120, IS-230, IS-240, IS-241, IS-242, IS-244, and IS-288.

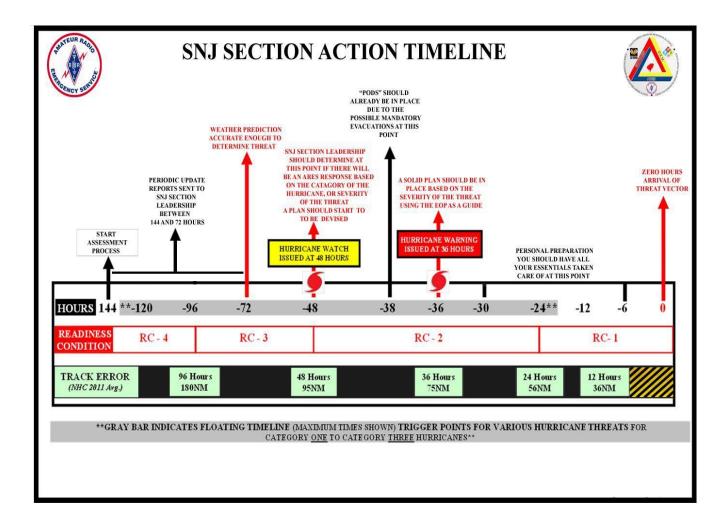
Completion of all training programs will be verified by the participant's Emergency Coordinator (EC) before the participant advances to a higher level. Since the Section Manager has the ultimate authority over training, the Section Manager can change requirements as warranted.

Those individuals holding leadership positions as the new program is introduced will be allowed one (1) year to complete the necessary training to meet qualifications for Level 3. (Extension can be permitted for extenuating conditions.)

Training requirements for ECs, DEC, and their assistants will be verified by their SEC or SEC's designated individual. In the case where the local community may have limited classroom study programs for IS-300 and IS-400.

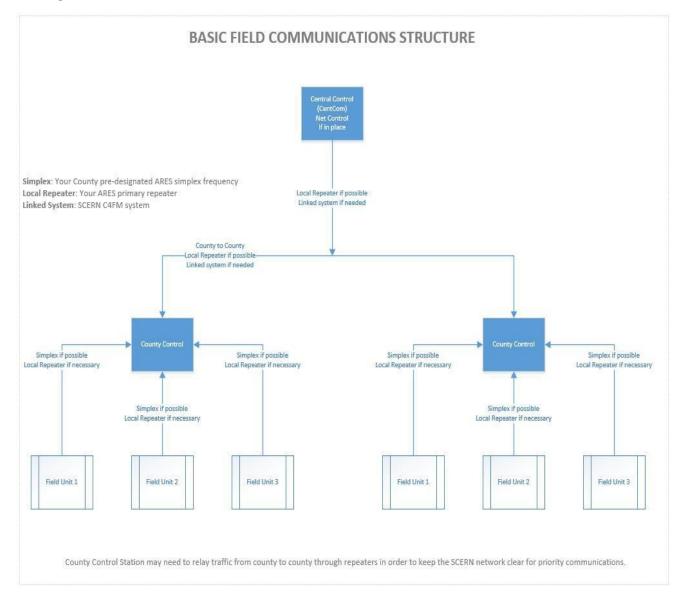
## **APPENDIX B: SOUTHERN NEW JERSEY SECTION ACTION TIMELINE**

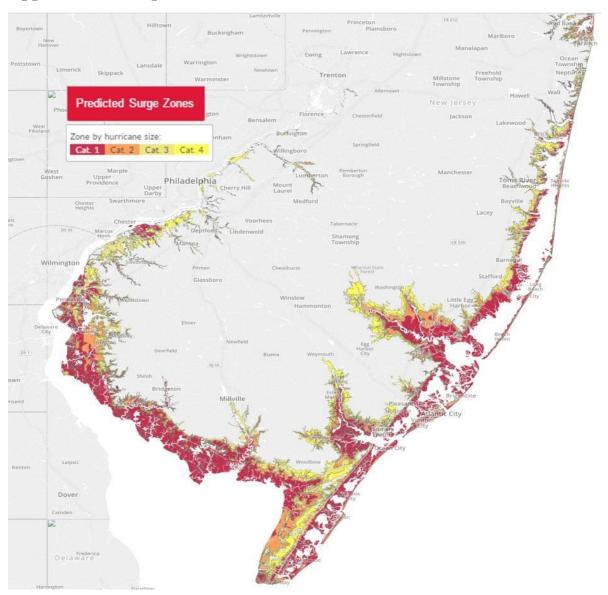
This appendix is provided as supplement to the Concept of Operations Section



# Appendix C: FIELD COMMUNICATIONS STRUCTURE

It should be noted that the field unit simplex and County to County portion of this structure can also represents HF or alternate modes other than VHF/UHF methods.





# Appendix D: Map of the Hurricane Risk Jurisdictions

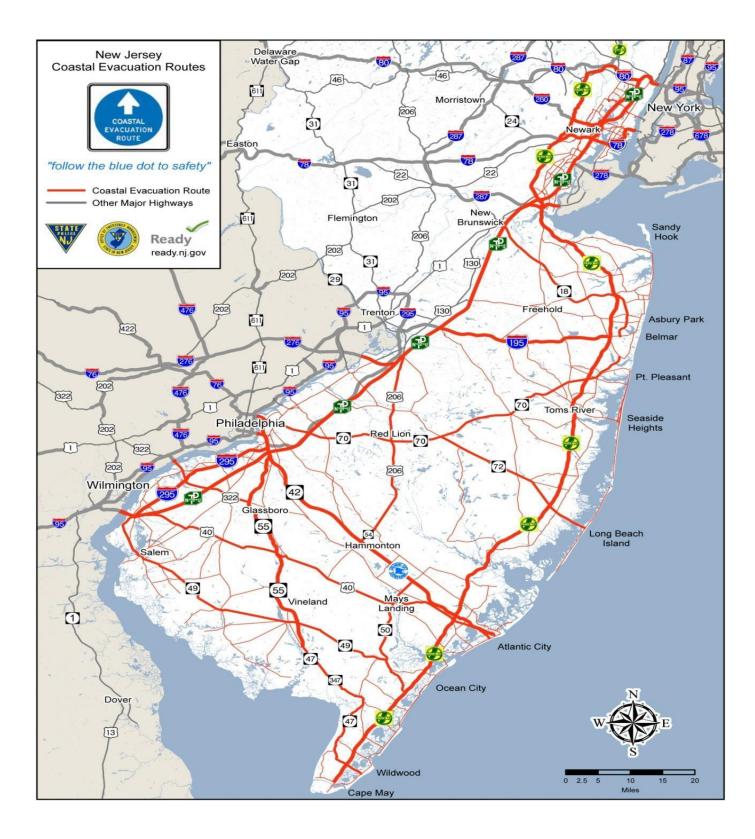
Designated Hurricane Risk Localities						
Atlantic County	Coastal areas, back bays, Egg Harbor Bay, barrier islands					
<b>Burlington County</b>	Mullica River and tributaries					
Camden County	Delaware River and tributaries					
Cape May County	Entire county with North-west being the exception					
Cumberland County	Coastal areas and tributaries					
Gloucester County	Delaware River and tributaries					
Mercer County	Delaware River-Minimal Risk					
Ocean County	Coastal areas, back bays and barrier islands					
Salem County	Coastal areas, Delaware River and tributaries					

# Appendix E: SAFFIR-SIMPSON HURRICANE WIND SCALE

Category	Winds MPH	Anticipated Damage
1	74 – 95	Very Dangerous Winds – Will Produce Some Damage
2	96 – 110	Extremely Dangerous Winds – Will Cause Extensive Damage
3	111 – 129	Extremely Dangerous Winds – Devastating Damage Will Occur
4	130 – 156	Extremely Dangerous Winds – Catastrophic Damage WillOccur
5	> 157	Extremely Dangerous Winds – Catastrophic Damage Will Occur

Non-Hurricane Classifications	Winds MPH
Tropical Depression	23 – 38
Tropical Storm	39 – 73

# **Appendix F: COASTAL EVACUATION ROUTES**



County	Tactical #	Output	Call	Split	PL	Modes	Location	Backup Pwr.
Atlantic	ALPHA	146.745	K2BR	-600	146.2	FM/C4FM	Atlantic County EOC	Auto Generator
Atlantic	BRAVO	146.985	W2HRW	-600	146.2	FM/C4FM	Stillwater Bldg.	Yes
Atlantic	CHARLIE	147.165	AG2NJ	+600	91.5	FM	S. Egg Harbor City	Yes
Atlantic	GOLF	447.575	K2ACY	-5Mhz	156.7	FM	Brigantine	Yes
Atlantic	FOXTROT	445.875	AG2NJ	-5Mhz	85.4	FM	Atlantic City	Yes
Atlantic	DELTA	448.775	K2BR	-5Mhz	146.2	FM	Atlantic Co. EOC	Auto Generator
Atlantic	ECHO	443.250	W2HRW	+5Mhz	146.2	FM/C4FM	Absecon	Yes
Atlantic	HOTEL	448.975	KC2KVZ	-5Mhz	123.0	FM/C4FM	Egg Harbor Twp	Yes
Atlantic	INDIA	444.650	KC2TGB	+5Mhz	156.7	FM/C4FM	Galloway	Yes
Atlantic	LIMA	146.560		Simplex		FM		
Atlantic	MIKE	146.580		Simplex		FM		
Atlantic	JULIET	146.520		Simplex		FM	Monitor for Emer. Traffic	
Atlantic	KILO	146.540		Simplex		FM		
Atlantic	NOVEMBER	445.16875	KC2VAC	-5Mhz		C4FM/DN	*SCERN Stillwater Bldg.	Yes
Atlantic	ROMEO	447.525	KC2TGB-B	-5Mhz		DSTAR	Brigantine	Yes
Atlantic	OSCAR	144.390	MAYS LNDG	Simplex		Digipeater	Mays Landing	Yes
Burlington	SCERN	445.33125	KC2QVT/R	-5Mhz		C4FM/DN		Yes
Burlington		445.33125	KC2QVT/R	-5Mhz	127.3	FM		Yes
Burlington	Primary	147.150	KC2QVT	+600	127.3	FM		Yes
Burlington	Secondary	145.470		-600	127.3	FM		Yes
Burlington		448.325		-5Mhz	127.3	FM		Yes
Camden	SCERN	440.24375	KC2EOC/R	+5Mhz		C4FM/DN	*SCERN	Yes
Camden	Primary	146.895	K2EOC/R	-600	91.5	FM		Yes
Camden		145.370	NJ2CH	-600	91.5	FM/C4FM	Cherry Hill	Yes
Camden		442.150	N2KDV	+5Mhz	156.7	FM/P25	Camden	Yes
Camden		145.390	K2DX	-600	91.5	FM	Monroe Twp.	Yes
Camden		146.565		Simplex				
Cape May	Primary	147.240	W2CMC/R	+600	146.2	FM		Yes
Cape May		443.600		+5MHZ	146.2	FM		Yes
Cape May		146.415		Simplex	203.5	FM		
Cape May	SKYWARN	147.420	SKYWARN	Simplex	XMIT 203.5	FM		
Cape May		446.025		Simplex	203.5	FM		
Cape May		927.500	W2CMC/R		100.0			Yes
Cape May		28.475		Simplex		USB	Cape May	
Cape May		7.215		Simplex		LSB+/- 5	Cape May	
Cape May	APRS	144.390	W2CMC-15	Simplex		Digipeater		Yes
Cumberland	SCERN	445.31875	KC2TXR/R	-5MHz		C4FM/DN	*SCERN	Yes
Cumberland	Primary	147.255	KC2TXB	+600	179.9	FM		Yes
Cumberland		448.125	KE2CK	-5MHZ	192.8	FM	Upper Deerfield	Yes
Cumberland		147.540		Simplex		FM		
Cumberland		145.070	KC2TXB-10	Simplex		Winlink		

# Appendix G: SNJ Section Emergency Frequencies

County	Tactical #	Output	Call	Split	PL	Modes	Location	Backup Pwr.
Gloucester	SCERN	440.10625	KC2LNB/R	+5MHZ		C4FM/DN	*SCERN	Yes
Gloucester	Primary	147.180	W2MMD/R	+600	131.8	FM/C4FM	Pitman	YES
Gloucester		442.100	W2MMD/R	+5MHZ	131.8	FM/C4FM	Pitman	YES
Gloucester		224.66	W2MMD/R	-1.6M	131.8	FM	Sewell	YES
Gloucester		146.535		Simplex		FM		
Gloucester		28.465		Simplex		USB		
Gloucester	WINLINK	145.030	W2MMD-3	Simplex		FM		
Mercer	Primary	147.105	W2MER	+600	123.0	FM	West Windsor	YES
Mercer	SKYWARN	146.460	N2RE	+1Mhz	131.8	FM	Lawrenceville	YES
Mercer	Secondary	146.670	W2ZQ	-600	131.8	FM/C4FM	West Trenton	YES
Mercer	ARES	147.555		Simplex		FM		
Mercer		442.650	W2ZQ	+5MHz		C4FM	West Trenton	YES
Mercer		144.390	W2MER	Simplex		APRS	West Windsor	YES
Mercer		144.390	N2ARC	Simplex		APRS	Princeton	YES
Wiereer		144.570		bimplex				125
Ocean	NORTH1	449.825	WA2RES/R	-5Mhz	131.8	FM/C4FM	Toms River	YES
Ocean	NORTH2	145.170	WA2RES/R	-600khz	131.8	FM/C4FM	Lacy Twp	Auto Batt/Gen
Ocean	SOUTH1	146.700	N2NF/R	-600khz	192.8	FM/C4FM	Tuckerton	Auto Batt/Gen
Ocean	SOUTH2	146.835	WU2E/R	-600khz	127.3	FM	Manahawkin	Manual Gen
Ocean	SHORE	446.9750	WA2RES/R	-5MHZ	131.8	FM	Harvey Cedar	YES
Ocean	SCERN	446.9750	WA2RES/R	-5MHZ		C4FM/DN	Harvey Cedar Link to SCERN	YES
Ocean	D-STAR	445.36875	WA2RES B	-5MHZ		D-STAR	Berkeley	Auto Batt/Gen
Ocean	WNLK	145.010	WX2NJ-10	Simplex		WINLINK VARA	Bayville	
Ocean	WNLK Digipeater	145.010	WX2NJ-15	Simplex		WINLINK VARA	Berkeley	Auto Batt/Gen
Ocean	APRS	144.390	BARNGT & TOMRVR	Simplex		Digipeater	Barnegat & Toms River	YES
Ocean	TAC1	144.310	TODAT	Simplex		FM	Prim. Simplex	
Ocean	TAC2	146.505		Simplex		FM	Prim. Simplex	
Ocean	TAC3	147.405		Simplex		FM	Sec. Simplex	
Ocean	TAC4	147.565		Simplex		FM	Sec. Simplex	
Ocean	TAC5	445.950		Simplex		FM	Prim. Simplex	
Ocean	TAC6	445.975		Simplex		FM	Prim. Simplex	
Ocean	TAC7	446.025		Simplex		FM	Sec. Simplex	
Ocean	TAC8	446.050		Simplex		FM	Sec. Simplex	
Ocean	801	3.9700		Simplex		LSB	Prim. HF SSB	
Ocean	802	3.9965		Simplex		LSB	Sec. HF SSB	
Ocean	401	7.2300		Simplex		LSB	Prim. HF SSB	
Ocean	402	7.2640		Simplex		LSB	Sec. HF SSB	
Ocean	101	28.355		Simplex		USB	Prim. HF SSB	
Ocean	102	28.347		Simplex		USB	Sec. HF SSB	
Ocean	801D	3.5845		Simplex		USB	Prim. HF Digital	
Ocean	802D	3.5830		Simplex		USB	Sec. HF Digital	
Ocean	401D	7.1200		Simplex		USB	Prim. HF Digital	
Ocean	402D	7.0640		Simplex		USB	Sec. HF Digital	

County	Tactical #	Output	Call	Split	PL	Modes	Location	Backup Pwr.
Ocean	101D	28.118		Simplex		USB	Prim. HF Digital	
Ocean	102D	28.121		Simplex		USB	Sec. HF Digital	
Salem	SCERN	445.03125	NJ2SRQ/R	-5MHZ		C4FM	*SCERN	Gen Back-up
Salem		146.625	W2KEJ/R	-600	131.8	FM		Gen Back-up
Salem		147.550		Simplex		FM		Gen Back-up

\*SCERN – Southern Counties Emergency Repeater Network includes Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, and Salem Counties through internet system. Ocean County is linked for inter-county communications within SNJ.

#### SNJ Section & State-wide Frequencies

Function	Channel	Assignment	RX	ТХ	Tone	Mode	Remarks
Inter-operative	NJ OEM SX	NJ OEM HQ	147.570	147.570	None	FM	State RACES Simplex (SEC will Monitor)
Inter-operative	NJ OEM R	NJ OEM HQ	224.320	222.720	67.0	FM	State RACES Repeater (SEC will Monitor)
SNJ Primary	SCERN	SNJ Counties	Below**	Below**	None	C4FM	SNJ Primary SCERN (SEC will Monitor)
SNJ Traffic	SNJTN	SNJ Traffic	147.345	147.945	127.3	FM	Process Traffic with NTS
Inter-operative	NJOEM HF	NJOEM 80	3.993	3.993	None	LSB	NJ RACES HF
SNJ HF	SNJ HF 80	SNJ 80	3.970	3.970	None	LSB	Section 80 meters HF Voice SNJ & NNJ
SNJ HF Digital	SNJ HF 80D	SNJ Digital	3.58535	3.58535	None	USB	SNJ Digital
SNJ HF Digital	SNJ HF 40D	SNJ Digital	7.0640	7.0640	None	USB	SNJ Digital
WINKLINK	WINLINK	WLK	RMS	RMS	None	D	SEC to check for Winlink messages at the top
							& bottom of hour (0 and 30 min.)

#### SCERN Frequencies to Access Network\*\*

County	Receive	Transmit	Mode
Atlantic	445.16875	440.16875	C4FM
Burlington	445.33125	440.33125	C4FM
Camden	440.24375	445.24375	C4FM
Cape May	440.09375	445.09375	C4FM
Cumberland	445.31875	440.31875	C4FM
Gloucester	440.10625	445.10625	C4FM
Ocean	446.9750	441.9750	C4FM
Salem	445.03125	440.03125	C4FM

R-05-17-2022

#### Appendix H: Memorandum of Understanding & Agreements

#### **ARRL National:**

American Red Cross

Citizen Corps (Department of Homeland Security)

Federal Emergency Management Agency (FEMA)

SKYWARN (National Weather Service)

#### Local County Level Agreements and Memorandums of Understanding:

#### **Consortium – 7 Counties RACES Organizations:**

The Southern Counties Emergency Repeater Network (SCERN) is a mutual aid consortium consisting of the RACES organizations of New Jersey's seven southern counties: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem. The primary mission is to operate a digital repeater network capable of passing voice and data as needed in emergency situations to support the Southern New Jersey Medical Coordination Center and their served facilities. This does not preclude our support of County and Local EOCs as well as other activities. We look to work cooperatively with ARES and other amateur radio emergency organizations to develop a cooperative effort in Southern New Jersey.

SCERN was made possible by the Southern New Jersey Medical Coordination Center with the support of the seven southern county's Offices of Emergency Management.

#### Support Agreement

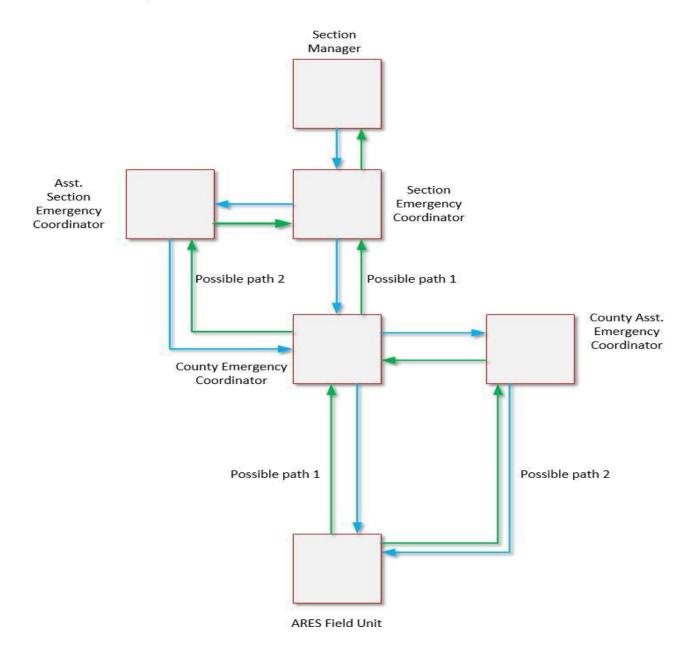
Mercer County - Provides Red Cross Center in Princeton with operators for three operating positions and provides backup operations for State EOC in West Trenton, as necessary.

#### **Appendix I: Basic ARES Hierarchal Information Flow Chart**

#### Basic ARES Hierarchal Information Flow Chart

GREEN is up-flow BLUE is down-flow

With the exception of the flow between the Section Manager and the Section Emergency Coordinator in the top two tiers, the upflow of information may stop at the relevant point on the chart. This limits information overload to the Section Level when the information may not be needed. Communications between levels not connected below by arrows should be avoided.



# Appendix J: ARRL Message Format Information

R	THE AMERICAN RADIO RELAY LEAGUE RADIOGRAM VIA AMATEUR RADIO					R		
NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK		PLACE OF ORIGIN	TIME FILED	DATE
TO TELEPHONE N	NMBER	·		1		THIS RADIO MESSAGE	PHOP	۱ ٤ 
REC'D	ROM		DATE	TIME	SENT TO		DATE	TIME
WHOSE ADD HANDLED SC ACCEPTED B DELIVERING	RESS IS SHOWN IN THE E CLELY FOR THE PLEASUR BY A 'HAM' OPERATOR, A F THIS MESSAGE TO YOU.	IOX AT RIGH E OF OPERA RETURN MES FURTHER IN	BY A LICENSED AMATEUR RA TABOVE AS SUCH MESSAGE TING, NO COMPENSATION CA SSAGE MAY BE FILED WITH TH FORMATION ON AMATEUR RA STREET, NEWINGTON, CT 00	S ARE IN BE HE 'HAM' DIO MAY BE	LICENSED RADIO FUNCTIONS IS PI OPERATORS. TO	RADIO RELAY LEAGUE, INC. IS 1 MAATEURS AND THE PUBLISH ROMOTION OF PUBLIC SERVIC THAT END. THE LEAGUE HAS ILY NATIONWIDE MESSAGE HA	IER OF QST MAGAZINE. ONE E COMMUNICATION AMONG ORGANIZED THE NATIONAL T	OF ITS AMATEUR

#### **Appendix K: Relief Emergency · Routine Messages Recommended Precedence's**

The letters ARL are inserted in the preamble in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals and text. Example: NR 1 R W1AW ARL 5 NEWINGTON CONN. DEC 25 DONALD R. SMITH 164 EAST SIXTH AVE NORTH RIVER CITY MO PHONE 73-3968 ARL FIFTY ARL SIXTY-ONE BT DIANA. For additional information about traffic handling, consult The ARRL Operating Manual, published by ARRL, or the NTS Methods and Practices Guidelines. (ARRL Form FSD-3)

Group One—For Possible	"Relief Emergency"	Use
------------------------	--------------------	-----

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am inhospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additionalmobile or portable equipment for immediate emergency use.
NINE	Additionalradio operators needed to assist with emergency at this location.
TEN	Please contact Advise to standby and provide further emergency information, instructions or assistance.
ELEVEN	Establish Amateur Radio emergency communications withonMhz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exits here.
FOURTEEN	Situation here becoming critical. Losses and damage from increasing.
FIFTEEN	Please advise your condition and what help is needed.
SIXTEEN	Property damage very severe in this area.

SEVENTEEN	REACT communications services also available. Establish REACT communication withon channel			
EIGHTEEN	Please contact me as soon as possible at			
NINETEEN	Request health and welfare report on (State name, address and telephone number.)			
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at			
TWENTY-ONE	Search and Rescue assistance is needed by local authorities here. Advise availability.			
TWENTY-TWO	Need accurate information on the extent and type of conditions now existing at your location. Please furnish this information and reply without delay.			
TWENTY-THREE	Report at once the accessibility and best way to reach your location.			
TWENTY-FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.			
TWENTY-FIVE	Furnish as soon as possible the weather conditions at your location.			
TWENTY-SIX	Help and care for evacuation of sick and injured from this location needed at once. Emergency/priority messages originating from official sources must carry the signature of the originating official.			
<u>Group Two—Routin</u>	ne Messages			
FORTY-SIX	Greetings on your birthday and best wishes for many more to come.			
FORTY-SEVEN	Reference your message numbertodelivered on     atUTC.			
FIFTY	Greetings by Amateur Radio.			
FIFTY-ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators at Am having a wonderful time.			
FIFTY-TWO	Really enjoyed being with you. Looking forward to getting together again.			

- **FIFTY-THREE** Received your\_\_\_\_. It's appreciated; many thanks.
- **FIFTY-FOUR** Many thanks for your good wishes.
- **FIFTY-FIVE** Good news is always welcome. Very delighted to hear about yours.

FIFTY-SIX	Congratulations on your, a most worthy and deserved achievement.		
FIFTY-SEVEN	Wish we could be together.		
FIFTY-EIGHT	Have a wonderful time. Let us know when you return.		
FIFTY-NINE	Congratulations on the new arrival. Hope mother and child are well.		
*SIXTY	Wishing you the best of everything on		
SIXTY-ONE	Wishing you a very Merry Christmas and a Happy New Year.		
*SIXTY-TWO	Greetings and best wishes to you for a pleasantholiday season.		
SIXTY-THREE	Victory or defeat, our best wishes are with you. Hope you win.		
SIXTY-FOUR	Arrived safely at		
SIXTY-FIVE	Arrivingon Please arrange to meet me there.		
SIXTY-SIX	DX QSLs are on hand for you at theQSL Bureau. Sendself-addressed envelopes.		
SIXTY-SEVEN	Your message numberundeliverable because of Please advise.		
SIXTY-EIGHT	Sorry to hear you are ill. Best wishes for a speedy recovery.		
SIXTY-NINE	Welcome to the We are glad to have you with us and hope you will enjoy the fun and fellowship of the organization.		

\* Can be used for all holidays.

#### ARRL Recommended Precedence's

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

**EMERGENCY**--Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be very rare. On CW/RTTY, this designation will always be spelled out. When in doubt, do not use it.

**PRIORITY**--Use abbreviation P on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency

category c) press dispatches and emergency-related traffic not of the utmost urgency d) notice of death or injury in a disaster area, personal or official.

**WELFARE**--This classification, abbreviated as W on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

**ROUTINE**--Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (R on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic. Note--the precedence always follows the message number. For example, a message number may be 207R on CW and "Two Zero Seven Routine" on phone. FSD-3 (5/05)

# **Sources of ARRL Forms and Procedures**

The following forms and procedures are available at <u>www.arrl.org/public-service-field-services-forms</u> :

ARRL Radiogram Form

FSD-3: ARRL Numbered Radiograms

FSD-218: Amateur Message Form (Relief Emergency, Routine Messages & Recommended Procedures)

FSD-220: Handy Operating Aid

FSD-244: Amateur Radio Disaster Welfare Message (Quick form for disaster welfare messages)

ARES Field Resource Manual #5439 PDF available at http://www.arrl.org/ares

# APPENDIX L: GENERAL MESSAGE (ICS 213)

1. Incident Name:		
2. To:	POSITION:	
3. FROM:	POSITION:	
4. SUBJECT:	5. Date:	6. Time:
7. MESSAGE:		
8. Approved By: Name: Signa	ature:	Position:
9 REPLY:		
10. Replied by: Name:	Signature/Positio Date/Time:	n:

#### **ICS 213 General Message**

**Purpose**: The General Message (ICS 213) is used by the incident dispatchers to record incoming messages that cannot be orally transmitted to the intended recipients. The ICS 213 is also used by the Incident Command Post and other incident personnel to transmit messages (e.g., resource order, incident name change, other ICS coordination issues, etc.) to the Incident Communications Center for transmission via radio or telephone to the addressee. This form is used to send any message or notification to incident personnel that requires hard-copy delivery.

**Preparation:** The ICS 213 may be initiated by incident dispatchers and any other personnel on an incident.

**Distribution**: Upon completion, the ICS 213 may be delivered to the addressee and/or delivered to the Incident Communication Center for transmission.

#### Notes:

• The ICS 213 is a three-part form, typically using carbon paper. The sender will complete Part 1 of the form and send Parts 2 and 3 to the recipient. The recipient will complete Part 2 and return Part 3 to the sender. Consider adding a sequence number on the Incident Name line for tracking and logging.

• A copy of the ICS 213 should be sent to and maintained within the Documentation Unit.

• Contact information for the sender and receiver can be added for communications purposes to confirm resource orders.

Block Number	Block Title	Instructions
1	Incident Name (Optional)	Enter the name assigned to the incident. This block is optional.
2	To (Name and Position)	Enter the name and position the General Message is intended for. For all individuals, use at least the first initial and last name. For Unified Command, include agency names.
3	From (Name and Position)	Enter the name and position of the individual sending the General Message. For all individuals, use at least the first initial and last name. For Unified Command, include agency names.
4	Subject	Enter the subject of the message.
5	Date	Enter the date (month/day/year) of the message.
6	Time	Enter the time (using the 24-hour clock) of the message.
7	Message	Enter the content of the message. Try to be as concise as possible.
8	Approved by • Name • Signature • Position/Title	Enter the name, signature, and ICS position/title of the person approving the message.
9	Reply	The intended recipient will enter a reply to the message and return it to the originator.
10	Replied by • Name • Position/Title • Signature • Date/Time	Enter the name, ICS position/title, and signature of the person replying to the message. Enter date (month/day/year) and time prepared (24- hour clock

Sources of more information //www.fema.gov/media-library/assets/documents/33548

# Appendix M -

# ACTIVITY LOG (ICS 214)

1. Incident Name:		2. Operational Period:	Date From:	Date To:
			Time From:	Time To:
7 8 - 4 1 1 1	- 4: 4: )			
7. Activity Log (cor				
Date/Time	Notable Activities			
8. Prepared by: Na	ame:	_ Position/Title:	Signature:	
ICS 214, Page 2		Date/Time:		

## ICS 214 Activity Log

**Purpose.** The Activity Log (ICS 214) records details of notable activities at any ICS level, including single resources, equipment, Task Forces, etc. These logs provide basic incident activity documentation, and a reference for any after action report.

**Preparation.** An ICS 214 can be initiated and maintained by personnel in various ICS positions as it is needed or appropriate. Personnel should document how relevant incident activities are occurring and progressing, or any notable events or communications.

**Distribution.** Completed ICS 214s are submitted to supervisors, who forward them to the Documentation Unit. All completed original forms must be given to the Documentation Unit, which maintains a file of all ICS 214s. It is recommended that individuals retain a copy for their own records.

Block Number	Block Title	Instructions	
1	Incident Name	Enter the name assigned to the incident.	
2	<ul> <li>Operational Period</li> <li>Date and Time From</li> <li>Date and Time To</li> </ul>	Enter the start date (month/day/year) and time (using the 24-hour clock) and end date and time for the operational period to which the form applies.	
3	Name	Enter the title of the organizational unit or resource designator (e.g., Facilities Unit, Safety Officer, Strike Team).	
4	ICS Position	Enter the name and ICS position of the individual in charge of the Unit.	
5	Home Agency (and Unit)	Enter the home agency of the individual completing the ICS 214. Enter a unit designator if utilized by the jurisdiction or discipline.	
6	Resources Assigned	Enter the following information for resources assigned:	
	• Name	Use this section to enter the resource's name. For all individuals, use at least the first initial and last name. Cell phone number for the individual can be added as an option.	
	ICS Position	Use this section to enter the resource's ICS position (e.g., Finance Section Chief).	
	Home Agency (and Unit)	Use this section to enter the resource's home agency and/or unit (e.g., Des Moines Public Works Department, Water Management Unit).	
7	<ul> <li>Activity Log</li> <li>Date/Time</li> <li>Notable Activities</li> </ul>	<ul> <li>Enter the time (24-hour clock) and briefly describe individual notable activities. Note the date as well if the operational period covers more than one day.</li> <li>Activities described may include notable occurrences or events such as task assignments, task completions, injuries, difficulties encountered, etc.</li> <li>This block can also be used to track personal work habits by adding columns such as "Action Required," "Delegated To," "Status," etc.</li> </ul>	
8	<ul> <li>Prepared by</li> <li>Name</li> <li>Position/Title</li> <li>Signature</li> <li>Date/Time</li> </ul>	Enter the name, ICS position/title, and signature of the person preparing the form. Enter date (month/day/year) and time prepared (24-hour clock).	

Notes:

• The ICS 214 can be printed as a two-sided form.

• Use additional copies as continuation sheets as needed, and indicate pagination as used.

# Appendix N – RESOURCE REQUEST FORM (Use by SNJ Leadership when EC request mutual assistance)

## Mid-Atlantic ARESMAT Resource Request Checklist

	nended to ensure requests for assistances information of the second seco	
Check	1	Details of Request
	Requesting EMCOMM Team & Individual:	
	• Team & Name:	
	• Call:	
	• Position:	
	• Contact Information: ( <i>Cell</i> ,	
	Repeaters, Simplex or HF)	
	Date & Time of Request:	Date: Time:
	Received by Name & Position:	
	Anticipated Needs?	
	• Operators: ( <i>Number</i> )	
	• Duration: ( <i>Hours/Days</i> )	
	Book listed needs for your Section	
	in regional ARESMAT database.)	
	<ul> <li>Equipment:</li> </ul>	
	<b>Operating Frequencies:</b> (If <u>not</u> currently within	
	Regional ARESMAT electronic database?)	
	,	
-	Planned Accommodations	
	• Will food & lodging be available?	
	<ul> <li>Should team bring their own?</li> </ul>	
	• Should team ornig then own:	
	Staging Site Outside of Affected Area	
	• Address?	
	• GPS coordinates?	
	• Any Blocked/Impassable Enroute	
	Roads/ Bridges?	
	<ul> <li>Individual Meeting &amp; Escorting</li> </ul>	
	AREMAT through security	
	clearances to operational site?	
	<ul> <li>Government Issues Photo</li> </ul>	
	Identification for each operator	
	<ul> <li>Indicated if your local authorities</li> </ul>	
	require a list of Driver's License or	
	other Government ID Numbers	
	• Site/Escort contact points (Cell #,	
	Repeaters & Simplex Frequencies)	

Recommended to ensure requests for assistances information is captured when time is critical.

R - 04/13/2022 (WINLINK version of form in development)

## **Appendix O: National Incident Management System**

# NIMS – Provides a nationwide template enabling Federal, State, local governments, and private-sector organizations to work together.

#### National Incident Management System

During any emergency or disaster, the National Incident Management System (NIMS) will be utilized by all emergency response agencies to manage an emergency incident/disaster or a nonemergency planned event. Scope and magnitude of an incident will determine level and complexity of the management structure. NIMS outlines three conceptual areas pertinent to incident and event response including:

- Communication & Information Management
- Resource Management
- Command and Management structures

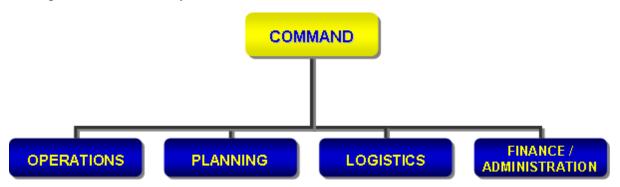
NIMS provides three structures for managing events all with different roles and responsibilities. The three structures are:

- Incident Command System
- Unified Command
- Multi-Agency Coordination Systems (Emergency Operation Centers)

For information on NIMS is available in FEMA Courses IS-100 and 700

# Appendix P: Incident Command System

The Incident Command System is designed to expand, or contract as needed. As an incident escalates span of control may expand requiring branch, group, and division positions of the Incident Command System to be staffed. Additionally, the following sections may be established and expanded as dictated by event.



Command – An Incident Commander is responsible for overall coordination and direction of all activities at the incident. Determination of which agency will function as on-scene incident commander will be in concert with the agency/person having three components:

- Responsibility through plans, policy, and inter-agency coordination
- Authority under local, state, or federal law
- Expertise with major functional components of the emergency

Major responsibilities of an Incident Commander include:

- Provide for safety and welfare of emergency responders
- Protect, remove, and provide care for endangered civilians
- Control and stabilize the incident
- Conserve and protect the environment and property during and after an incident

An Incident Commander may elect to establish command staff positions to assume responsibilities for key activities, that are not part of the line organization. All these positions may not be required on all incidents or may be assumed by the Emergency Operations Center. These positions answer directly to the Incident Commander.

#### **REFERENCES:**

The following references were used in the development of this document:

Amateur Radio Emergency Service Field Resource Manual, A Quick Trainer and Field Resources Guide for the Emergency Communicator #5439, American Radio Relay League, Newington, CT 2017. PDF available at http://www.arrl.org/ares

Amateur Radio Emergency Service Manual, American Radio Relay League, Newington, CT, March 2015. PDF available at http://www.arrl.org/ares

Amateur Radio Emergency Service Strategic Plan, adopted by American Radio Relay League Board of Directors, January 2019.

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American Radio Relay League Emergency Coordinator's Manual, Newington, CT, 1997.

Easter Pennsylvania Section Amateur Radio Emergency Services Emergency Communications Plan, December 2003.

Ocean County Amateur Radio Emergency Service Emergency Operating Plan, April 2020.

Santa Clara County ARES/RACES Quick Trainer Guide

Southern Counties Emergency Repeater Network (SCERN). Website www.scernet.org.

Storm Spotting and Amateur Radio, American Radio Relay League, Newington, CT, March 2010.

VHF Digital Handbook, American Radio Relay League, Newington, CT, 2008

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