



# Hillsborough County ARES/RACES Communication Plan

March 2007

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**Purpose:**

To provide procedures, policies, and organizational structure for amateur radio operators performing emergency communications responsibilities on behalf of Hillsborough County's ARES/RACES program. To the extent possible, the procedures and policies developed within this plan will be complementary to the West Central Florida ARRL Section, and Hillsborough County's Comprehensive Emergency Plans.

**Scope:**

The policies and procedures contained within this document apply to all radio amateurs, within Hillsborough County, providing services under the auspices of ARES/RACES regardless of other organizational affiliations.

**Background:**

Hillsborough County is situated on the west central coast of Florida. The County encompasses almost 1000 square miles and has a population of about 1 million people. Hillsborough County is home to the Port of Tampa, one of the largest ports in the nation. The Port receives and transfers the largest amount of hazardous materials in the state. Florida is also prone to hurricane activity. In 2004 and 2005, Florida was impacted by 8 hurricanes. The potential for emergencies/disasters is a possibility. These include hazardous material spills, strong summer thunderstorms, and terrorism; however, hurricanes have the greatest potential of major disruption to our local communications systems. The Amateur Radio Emergency Service (ARES) and Radio Amateur Civil Emergency Service (RACES) are membership organizations charged with the responsibility of providing back-up and auxiliary communications during times of emergency. ARES is sponsored and organized through the field organization of the American Radio Relay League (ARRL). The RACES program is sponsored and organized through the local emergency management agency. In Hillsborough County both the ARES and RACES organizations are consolidated under one leadership structure headed by an Emergency Coordinator/RACES Officer and several assistants.

The advantages of a consolidated program are many. For instance, amateurs need not worry which organization they belong to: Once registered with the ARES/RACES leadership, they are considered members of both ARES and RACES. This allows for great flexibility when supplying emergency communications. Whether a declared emergency or a served agency looking for auxiliary communications capability; the ARES/RACES program, because of its single leadership structure, can quickly and effectively respond. Generally, ARES/RACES members need not concern themselves with the label they wear, different served organizations know us under different titles. Ultimately, we are licensed amateur radio operators using our equipment and skills to provide communications.

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**Organization:**

The ARES/RACES program provides a group of core leaders to plan, promote, facilitate and interface with the amateur community to ensure a level of readiness that will allow the ARES/RACES program to be effective in times of emergency. In turn, the ARES/RACES program relies on local clubs and the amateur radio community to make ARES/RACES support an important priority. (Appendix 3 provides list of, and contact information for, local clubs.) Each leader has been delegated an area of responsibility. Additional leaders can be designated at the discretion of the EC/RACES Officer, as the need arises. Below is the current leadership structure:

Fred Nassar (KD8AQ) EC/RACES Officer 4327 Balington Dr. Valrico, FL 33594 813-685-7622 Home 813-785-7950 Cell 813-224-8544 RACES Voice Mail <a href="mailto:races@hillsboroughcounty.org">races@hillsboroughcounty.org</a>	
Keating Floyd (KC4HSI) AEC - Net Management 3217 West Alene Drive Tampa, FL 33614 813-343-2612 Home 813-765-8916 Cell <a href="mailto:kc4hsi@hamclub.org">kc4hsi@hamclub.org</a>	William Barron (W1WAB) AEC - Club Liaison 2015 New Bedford Drive Sun City Center, FL 33573 813-642-9079 Home <a href="mailto:w1wab@arrl.net">w1wab@arrl.net</a>
Jodi Pecoraro (KI4FWJ) AEC - CERT Liaison 15901 Layton Court Tampa, FL 33647 813-631-9454 Home 813-765-8916 Cell <a href="mailto:jodip8@gmail.com">jodip8@gmail.com</a>	Mike Fletcher (NI4M) AEC - Technical Coord. Repeaters 1434 Clarion Dr. Valrico, FL 33594 813-477-0850 Nextel 813-767-4706 Cell
Chuck Hast (KP4DJT) AEC - Technical Coord. Digital 504 57 <sup>th</sup> Street Tampa, FL 33619 813-298-0357 Home 813-765-6743 Cell <a href="mailto:wchast@gmail.com">wchast@gmail.com</a>	Vacant AEC - HF Operations

**Responsibilities:**

EC/RACES Officer: Must be an ARRL member; overall manager of the ARES and RACES program; develops relationships with served agencies; pursues memorandums of understanding and other agreements when in the best interest of ARES/RACES; handles and/or delegates media requests; works with a team of leaders to accomplish the goals of the organization; seeks training opportunities for the organization; promotes amateur radio and especially emergency communications; and provides regular updates, and communicates with the WCF section emergency coordinator, and local emergency management officials.

AEC - Net Management: Recruit and train a sufficient number of operators capable of sustaining 24/7 voice net control operations, make best use of amateur infrastructure to conduct effective voice net operations, evaluate network traffic and make adjustments to traffic flow as necessary, enforce net discipline, train operators in proper message handling, and provide status reports and resource needs to the EC/RACES Officer.

AEC - Club Liaison: Interface with amateur radio clubs in Hillsborough County through meetings, email, correspondence, phone calls, and radio nets; promote emergency communications; promote ARES/RACES membership; encourage clubs to be active in public service, and weekly nets; maintain a list of resources that each club has (such as TARC has emergency power); and provide regular reports about club activity, as it relates to emergency communications to the EC/RACES Officer.

AEC - CERT Liaison: Interface with the various CERT groups in Hillsborough County through meetings, email, correspondence, phone calls, and radio nets; promote emergency communications, amateur radio; promote ARES/RACES membership; encourage CERT groups to be active in public service, and weekly nets, if licensed; and provide regular reports about CERT activity, as it relates to emergency communications to the EC/RACES Officer.

AEC - Technical Coordinator (Repeaters): Interface with a technical pool of amateurs that can troubleshoot, install, and repair non-digital amateur infrastructure, i.e. repeaters and associated equipment; plan for the use and deployment of portable repeaters; advise of equipment needs; liaison with repeater owners to ensure repeater resources are available to ARES/RACES as needed; and provide regular status reports concerning the availability of non-digital amateur infrastructure.

AEC - Technical Coordinator (Digital): Interface with a technical pool of amateurs that can troubleshoot, install, and repair digital amateur infrastructure; plan for the use of digital modes at strategic communication points; leverage current infrastructure, and encourage the development of new infrastructure to provide emergency communications; provide training on the use of digital modes advise of equipment needs; and provide regular status reports concerning the availability of digital amateur infrastructure.

**AEC - HF Operations:** Must have at least a general class license, identify HF stations capable of emergency operations; provide liaison to section nets, and other HF emergency nets such as the Hurricane Watch net, and SATERN net; maintain a list of HF nets and their frequencies; coordinate inbound emergency traffic, and outbound health and welfare traffic; and provide regular status reports concerning HF operations

Generally, the ARES/RACES program will follow an ICS/NIMS organizational structure. That is to say, anyone in the organization can assume the ARES/RACES incident command, start a net, and make preparations to provide emergency communication until command can be assumed by a more qualified person or other ARES/RACES leadership position.

**Training:**

ARES/RACES typically provides at least two formal training exercises a year. These include the annual hurricane exercise, and mass casualty drill. Each one of these exercises gives ARES/RACES members the opportunity to enhance their operator skills and emergency power capability. It is also a time to showcase amateur radio to served agencies. In addition, there are weekly HF and VHF nets provided for additional training. The field organization of the ARRL also provides training opportunities such as Field Day and the Simulated Emergency Test. Clubs and individuals are encouraged to participate in these events. While not required, ARES/RACES recommends its membership to obtain ICS and NIMS training either in classroom setting or online at [fema.gov](http://fema.gov). In addition, the ARRL provides three levels of emergency communications training. As resources allow, ARES/RACES will work with and through the local clubs to provide emergency communications training. Appendix 2 provides a description of various emergency training courses readily available.

Each member is responsible for having a personal emergency plan, and ensuring their equipment is in good condition. It is recommended that each member evaluate their situation in May of each year.

**Served Agencies:**

Traditionally, the ARES/RACES organization has served many governmental and non-profit organizations. During a declared emergency, the ARES/RACES is directed by the local emergency management agency. The EM organization's priority for backup communications becomes ARES/RACES' priority. As resources allow the organization attempts to meet those needs. Currently, emergency management's priority during a declared emergency is staffing shelters to provide backup communications. Special needs shelters will be staff before all other shelters. If additional resources are available, secondary priorities will be filled.

During non-declared emergencies the EC will prioritize and respond to communications needs as resources allow. Below is a list of potential served agencies:

Hillsborough County*	City of Tampa*	City of Plant City*
City of Temple Terrace*	American Red Cross	Salvation Army
National Weather Service	Southern Baptist Disaster Relief	VOAD
Department of Forestry		

\*All Departments

<http://www.floridadisaster.org/bpr/emtools/esf.htm> provides a breakdown of departments and agencies by Emergency Support Functions (ESF).

### **Local Operations:**

#### Notification:

All amateur operators should tune to the primary frequency indicated in the VHF/UHF band plan in Appendix 1 to receive information and instruction during times of emergency. Each ARES/RACES member is expected to have a basic awareness of events taking place that might result in an emergency or disaster. This could include a mass casualty event, or hurricane. In addition, information concerning impending activations and situation updates will be distributed through established e-mail distribution lists. Also status reports will be forwarded for posting on the WCF Section web page.

#### Activation:

The ARES/RACES organization will activate upon direction of local emergency management or by the EC once a request for backup communications has been made; determined to be necessary and can not be supplied by normal means; and resources are available.

Upon activation, the AEC - Net Management will initiate a coordination net on the frequency established in the VHF/UHF band plan and using the alert message found in Appendix 5 for the purpose of coordinating secondary nets; and assigning and dispatching amateurs to provide backup communication. The AEC - Net Management will provide the parameters by which the nets will operate, control the flow of traffic in the network, specify message handling requirements and make any other necessary adjustments to ensure smooth traffic flow. Depending on the nature of the activation, the role of the net and the communications needs may change. For instance, prior to a storm the role of the net may almost be exclusive to providing shelter communications. After a storm, the net may be supporting search and rescue, damage assessment, or points of distribution.

Flexibility and net discipline are key factors in successfully providing effective communications. All amateurs entering the net should not transmit unless they are responding to a request from the net control operator. Tactical call signs are to be established for all assigned stations. Also remember, we are providing communications. We do not decide what to communicate or take it upon ourselves to communicate information without authorization.

HF Activities:

Designated HF stations will be contacted by the AEC - HF Operations to provide liaison and traffic handling with section nets as well as other emergency nets. The AEC - HF Operations will notify the section level official responsible for HF operations which stations represent ARES/RACES. The HF band plan in Appendix 1 provides a list of those nets and their frequencies.

Subsequent to a disaster, HF stations will provide emergency and priority traffic in and out of the area. If time permits, one way health and welfare (H&W) messages out of the area may be provided. Incoming H&W will not be accepted without the approval of the AEC - HF Operations.

Digital Activities:

Digital modes afford increased operating efficiencies when the proper resources and training is available. It is the goal of the ARES/RACES program to leverage digital modes to the extent possible to provide emergency communications. Upon activation, the AEC - Technical Coordinator (Digital) will provide the EC/RACES Officer with an assessment of the digital capabilities within the county and the feasibility of using them. The AEC - Technical Coordinator (Digital) may establish a limited and strategically place digital mode stations to facilitate ARES/RACES operations.

Mutual Aid:

During extended operations, mutual aid may be needed to provide relief for local operations. Mutual Aid coming into Hillsborough County will be coordinated at the section and state level. All requests will be coordinated with the WCF Section Emergency Coordinator. All aid coming into or going out of the County will have a tracker number assigned by the State of Florida. Teams coming into Hillsborough County will stage at a location determined by local emergency management or ARES EC. The AEC - CERT Liaison and AEC - Club Liaison will coordinate this activity locally. All mutual aid teams should be self sustaining for at least 72 hours. In addition, at a minimum, each mutual aid team should have a high powered VHF radio, antenna, and emergency power supply, such as a generator or automotive battery. Teams will be dispatched as needed and given appropriate information about their assignment.

**Continuity of Operations:**

In the absence of the ARES/RACES Officer the following is the order of succession:

1. AEC - Net Management
2. AEC - Technical Coordinator (Repeaters)
3. AEC - Club Liaison
4. AEC - CERT Liaison
5. AEC - Technical Coordinator (Digital)
6. AEC - HF Operations



If any of the AECs are unavailable to fulfill their duties, other AECs may fill in, the EC/RACES Officer may appoint someone from the organization to fill the position on an interim basis, or may request a section official to provide qualified staff.

**Deployed Operations:**

Amateur radio has a great tradition of helping others even if they are far removed. Examples include Hurricanes Hugo, Andrew, and Katrina; and earthquakes in California in 1989 and 1994. Two opportunities exist to assist others struck by disaster:

**Go Teams:**

ARES/RACES will support as many “go teams” as possible. For those interested in participating on a “go team” must meet at least these minimum requirements:

1. Each team must have at least one General or higher class amateur
2. Each team member must have some level of formal emergency communications training such as ICS/NIMS/ARRL
3. Be self-contained for at least 72 hours
4. Have, at a minimum, a high powered VHF radio, antenna, and emergency power source
5. Have a portable HF radio and multi-band antenna for operations on 80 and 40 meters

Teams should be between 4-6 people. Teams that form and meet these requirements will have their contact information made available to the WCF Section leadership. Teams called up to respond should be ready to do so within 24-72 hours of first notification. Teams will comply with the WCF Section Communications Plan or the communications plan established for the area of deployment. Teams deployed will receive further instructions by those making the deployment request.

If teams are dispatched out of the area, the AEC - HF Operations and AEC - Net Management, if appropriate, will make arrangement to provide communications support back to Hillsborough County. The teams will provide a communications schedule and the appropriate operators will attempt to make contact to facilitate traffic.

Deployment of Hillsborough County assets to other locations will be provided according to the mission requirements provided. Amateur and other communications tools may be utilized to compliment the overall mission.

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Traffic Handling:

Upon learning of a disaster outside the immediate area, the AECs (Net Management and HF Operations) will coordinate with the EC/RACES Officer to determine the level of support to be provided.

In a post disaster situation it is desirable to have designated HF stations available to monitor and accept out bound traffic from the affected area. If necessary, local VHF/UFH nets can be established to move H&W traffic to other parts of the state.

Miscellaneous:

For extended operations, the ARES/RACES leadership will meet in person or via radio to debrief and assess overall operations. The EC/RACES Officer will attend regular EOC briefings and use this information to form a daily work plan defining objectives and outcomes.

As time allows, the AEC - CERT Liaison will contact CERT groups to determine the feasibility of non-ham CERT members to augment ARES/RACES, especially where administrative functions are need.

# Appendix 1 Band Plans

## UHF/VHF

County	Primary	Secondary
Charlotte	146.745-	147.585 (Simplex)
Desoto	147.075+ (100.0)	147.180+ (None)
Hardee	147.625- (127.3)	
Highlands	147.270+ (100.0)	147.045+ (100.0)
	145.210- (100.0)	147.550 (Simplex)
	442.350+ (100.0)	
Hillsborough	147.105+ <sup>1,2</sup> (146.2)	146.940- (127.3)
	444.900+ (141.3)	443.425+ (None)
	146.520 (Simplex)	
	443.025+ (146.2)	
		147.165+ (136.5)
		147.225+ (None)
		443.675+ (None)
		442.520+ (None)
		146.995+ (100.0)
		443.225+ (100.0)
Manatee	145.430- (100.0)	446.500 (Simplex)
	146.820+ (100.0)	
Pasco	1145.330- (None)	
Pinellas	145.170- (156.7)	147.030+ (103.5)
	442.400+ (156.7)	147.030+ (156.7)
	442.800+ (156.7)	147.030+ (192.8)
	443.400+ (156.7)	
Polk	146.985- (127.3)	146.470 (Simplex)
		146.685- (127.3)
		146.550 (Simplex) - Wide
		146.565 (Simplex) – East
		146.580 (Simplex) – West
		147.375+ (127.3)
Sarasota		444.950 (127.3)
	146.730- (100.0)	147.120+ (136.5)
		145.130- (None) – South
	147.550 (Simplex)	

<sup>1</sup> Hillsborough County Primary Alert Frequency

<sup>2</sup> In the event the repeater is unavailable, use simplex on Repeater Output Frequency

# Appendix 1 Band Plans

## HF

Frequency	Net	Comments
3.911 MHz	WCF	Section Net
7.281 MHz	WCF	Section Net
3.950 MHz	NFL	Section Net
3.940 MHz	SFL	Section Net
14.265 MHz	SATERN	Salvation Army
14.325 MHz	HWN	Hurricane

## Appendix 2

### Training Course Descriptions

**In terms of general ARES training, the ARRL offers three ARESCOM Courses:**

- Amateur Radio Emergency Communications **EC-001** - Introduction to Amateur Radio Emergency Communications.  
A basic course to raise awareness and provide additional knowledge and tools for any emergency communications volunteer. This course has 23 lesson units, is expected to take approximately 25 hours to complete over an 8-week period. This course is **highly recommended** for **all ARES members**.
- Amateur Radio Emergency Communications **EC-002** - Intermediate Amateur Radio Emergency Communications.  
A more in-depth study into amateur radio emergency communications to enhance the skills and knowledge received from previous experience. Level I ARECC is required prior to taking Level II. This course has 20 lesson units, is expected to take approximately 25 hours to complete over an 8-week period. This course is recommended for any member who may want to participate as a Net Control Station or wants to learn more than is covered in the level 1 course. It is **highly suggested** for **all ARES leaders**.
- Amateur Radio Emergency Communications **EC-003** - Advanced Amateur Radio Emergency Communications.  
This is the third and final stage of the 3-level ARRL Amateur Radio Emergency Communications Courses. This is a course for those in leadership or aspiring to leadership positions. Revision 2 is a significant rewrite that brings the course current with the post-9/11/01 Department of Homeland Security (DHS) paradigm. This course has 23 learning units, is expected to take approximately 25 hours to complete over a 12-week period. This course is **highly recommended** for **all ARES members**.

All of the above courses are Internet based, self-paced (within 8 week period) and consist of learning experiences on-line, on the air, and working over the Internet via e-mail with a mentor.

**In terms of training to help us work with our served agencies:**

#### **DHS IS-700 National Incident Management System (NIMS), An Introduction**

<http://training.fema.gov/EMIWeb/IS/is700.asp>

DHS Description: On February 28, 2003, President Bush issued Homeland Security Presidential Directive-5. HSPD-5 directed the Secretary of Homeland Security to develop and administer a National Incident Management System (NIMS). NIMS provides a consistent nationwide template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents. You can also find information about NIMS at

<http://www.fema.gov/nims/>

This course introduces NIMS and takes approximately three hours to complete. It explains the purpose, principles, key components and benefits of NIMS. The course also contains "Planning Activity" screens giving you an opportunity to complete some planning tasks during this course. The planning activity screens are printable so that you can use them after you complete the course.

## **Appendix 2**

### **Training Course Descriptions**

#### **IS-22 Are You Ready? An In-depth Guide to Citizen Preparedness**

<http://training.fema.gov/EMIWeb/IS/is22.asp>

DHS Description: This guide has been designed to help the citizens of this nation learn how to protect themselves and their families against all types of hazards. It can be used as a reference source or as a step-by-step manual. The focus of the content is on how to develop, practice, and maintain emergency plans that reflect what must be done before, during, and after a disaster to protect people and their property. Also included is information on how to assemble a disaster supplies kit that contains the food, water, and other supplies in sufficient quantity for individuals and their families to survive.

#### **ICS 100 - Introduction to the Incident Command System**

<http://training.fema.gov/EMIWeb/IS/is100.asp>

DHS Description: ICS 100 introduces the Incident Command System (ICS) and provides the foundation for higher level ICS training. This course describes the history, features and principles, and organizational structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS).

#### **ICS 200 - ICS for Single Resources and Initial Action Incidents**

<http://training.fema.gov/EMIWeb/IS/is200.asp>

DHS Description: ICS 200 is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). ICS-200 provides training on and resources for personnel who are likely to assume a supervisory position within the ICS.

#### **IS-800.A National Response Plan (NRP), An Introduction**

<http://training.fema.gov/EMIWeb/IS/is800a.asp>

DHS Description: The National Response Plan, or NRP, describes how the Federal Government will work in concert with State, local, and tribal governments and the private sector to respond to disasters. This course introduces the NRP. It is intended for DHS and other Federal staff responsible for implementing the NRP, and Tribal, State, local and private sector emergency management professionals.

## Appendix 3

### Hillsborough County Florida Amateur Radio Clubs

- American Victory Amateur Radio Association
- Baycare Emergency Amateur Radio Society (BEARS)
- Brandon Amateur Radio Society (BARS)
- Egypt Shrine Amateur Radio Club
- King's Point Amateur Radio Club (KPARC)
- Museum of Science and Industry Amateur Radio Club (MOSI)
- Sheriff's Tactical Amateur Radio Club (STARC)
- Sun City Center Amateur Radio Club
- Tampa Amateur Radio Club (TARC)

#### American Victory Amateur Radio Association

<b>Call Sign:</b>	W4AVM
<b>Mailing Address:</b>	705 Channelside Drive Tampa, FL 33602
<b>Physical Address:</b>	705 Channelside Drive Tampa, FL 33602
<b>Contact:</b>	James Howell, W4LNI, W4lni@aol.com, 813-876-5531 Barbara Riter, KI4QKG, w4avm@mail.americanvictory.org
<b>Phone:</b>	813-228-8766
<b>Repeater(s):</b>	
<b>Club Meetings:</b>	Fourth Tuesday of each month at 6:00 pm aboard the S.S. American Victory

#### Baycare Emergency Amateur Radio Society (BEARS)

<b>Call Sign:</b>	W4TCH
<b>Mailing Address:</b>	c/o Dick Palmer 3001 W. Martin Luther King Boulevard Tampa, FL 33607
<b>Physical Address:</b>	St. Joseph's Hospital 3001 W. Martin Luther King Boulevard Tampa, FL 33607
<b>Contact:</b>	Ed Weston, AI4KE, ai4ke@tampabay.rr.com, 813-727-6146 George Jones, W4AQR, w4aqr@tampabay.rr.com , 813 886-2252
<b>Web:</b>	<a href="http://www.flbears.org">http://www.flbears.org</a>
<b>Repeater(s):</b>	St Joseph Hospital - 444.000+ MHz (88.5 Hz PL Tone) (Primary) St Joseph Hospital - 1291.500 MHz (88.5 Hz PL Tone) John Knox Village - 444.675+MHz (103.5 Hz PL Tone) South Florida Baptist Hospital - 444.225+ MHz (146.2 Hz PL Tone) Morton Plant Hospital - 443.425+ (88.5 Hz PL Tone) North Bay Hospital - 443.100+ (110.9 Hz PL Tone) St Anthony's Hospital - 444.175+ (146.2 Hz PL Tone) Mease Country Side:     Safety Harbor 147.000+ (107.2 Hz PL Tone) Tampa Node 147.000+ (107.2 Hz PL Tone) Seminole Node 147.000+ (88.5 Hz PL Tone)
<b>Club Meetings:</b>	3rd Tuesday of each month @ 7:00 pm at the St. Joseph's Hospital cafeteria, located at 3001 W. Martin Luther King Avenue in Tampa.

## Appendix 3

### Hillsborough County Florida Amateur Radio Clubs

#### **Brandon Amateur Radio Society (BARS)**

Call Sign: K4TN  
Mailing Address: 1508 Highcrest Circle Valrico, FL 33594  
Physical Address: 3940 Canoga Park Drive Brandon, FL 33511  
Contact: Doris Haskell, WB9VDT  
Phone: 813-689-5308  
Email: [wb9ujs@msn.com](mailto:wb9ujs@msn.com)  
Web: <http://www.barsweb.com>  
Repeater(s): K4TN 147.165 + MHz (136.5 Hz PL tone)  
K4TN 443.500 + MHz (127.3 Hz PL tone)  
Club Meetings: 3rd Thursday of each month @ 7:30 pm at the Bloomingdale West Community Park Center located at 3940 Canoga Park Drive in Valrico. 2 meter radio net each Monday night at 8:00 pm on 147.165 MHz.

#### **Egypt Shrine Amateur Radio Club**

Call Sign: K4FEZ  
Mailing Address: 4050 Dana Shores Drive Tampa, FL 33622  
Physical Address: 4050 Dana Shores Drive Tampa, FL 33622  
Contact: Len Smith, K4BDP, [k4bdp@verizon.net](mailto:k4bdp@verizon.net)  
Phone: 813-884-8381  
Email:  
Web:  
Repeater(s): K4FEZ 147.345 +MHz (146.2 Hz PL tone)  
Club Meetings: Last Wednesday of each month @ 7:30 pm at the Egypt Shrine located at 4050 Dana Shores Drive in Tampa.

#### **King's Point Amateur Radio Club (KPARC)**

Call Sign: W3SOB  
Mailing Address: 1900 Clubhouse Drive Sun City Center, FL 33573  
Physical Address: 1900 Clubhouse Drive Sun City Center, FL 33573  
Contact: Dick Bishop, W4NWD  
Phone: 813-633-7157  
Email: [RNBIshop@aol.com](mailto:RNBIshop@aol.com)  
Web: <http://www.KParc.org>  
Repeater(s): None. Echolink node (RF to KE4ZIP repeater) at node # 278318  
Club Meetings: 1st Monday of each month at 3:00pm in the Craft Room of the main KP Clubhouse at 1900 Clubhouse Drive Sun City Center, FL 33573.



## Appendix 3

### Hillsborough County Florida Amateur Radio Clubs

#### Museum of Science and Industry Amateur Radio Club (MOSI)

**Call Sign:** KM0SI  
**Mailing Address:** 4801 E. Fowler Avenue Tampa, FL 33617  
**Physical Address:** 4801 E. Fowler Avenue Tampa, FL 33617  
**Contact:** Carl Seyersdahl, KZ5CA, carlseye@tampabay.rr.com  
Fred Hendershot, N3BUL, fred.hendershot@verizon.net  
**Phone:**  
**Web:** <http://chipdoc.com/mosi>  
**Repeater(s):**  
**Club Meetings:** 2nd Thursday of each month @ 7:00 pm at the Museum of Science and Industry auditorium located at 4801 E. Fowler Avenue in Tampa.

#### Sheriff's Tactical Amateur Radio Club (STARC)

**Call Sign:** W4HSO  
**Mailing Address:** 2310 N. Falkenberg Road Brandon, FL 33619  
**Physical Address:** 2310 N. Falkenberg Road Brandon, FL 33619  
**Contact:** Steve Buchanan, W3DDC  
**Phone:** 813-689-9653  
**Email:** w3ddc@arrl.net  
**Web:** <http://www.hcso.tampa.fl.us/STAmateurRadioClub/newstarc.htm>  
**Repeater(s):** W4HSO 444.900 + MHz (14 1.3 Hz PL tone)  
W4HSO 146.610 - MHz (141.3 Hz PL tone)  
**Club Meetings:** 4<sup>th</sup> Monday of each month @ 7:00 pm at the Hillsborough County Sheriff's District II sub-station office located at 2310 N. Falkenberg Road in Brandon. 70 cm radio net each Tuesday night @ 7:30 pm on 444.900 MHz.

## Appendix 3

### Hillsborough County Florida Amateur Radio Clubs

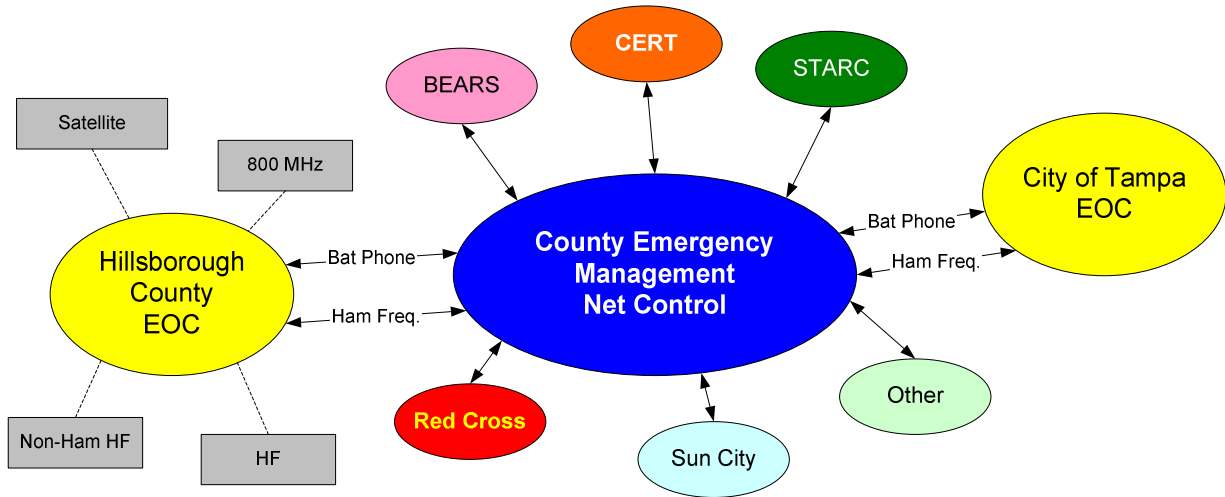
#### Sun City Center Amateur Radio Club

**Call Sign:** KE4ZIP  
**Mailing Address:** 1009 N Pebble Beach Blvd, Sun City Center, FL 33573  
**Physical Address:** 1009 N Pebble Beach Blvd, Sun City Center, FL 33573  
**Contact:** Dave Schierenbeck (President), N8PF  
**Phone:** 813-633-5272  
**Email:** [DavidDeya@aol.com](mailto:DavidDeya@aol.com)  
**Web:** <http://www.sccradio.com>  
**Repeater(s):** 147.225 + MHz  
**Club Meetings:** 1st Wednesday of each month at 3:00pm in the Florida Room of the Atrium building located at 1009 N. Pebble Beach Boulevard in Sun City Center. 2 meter radio net each Tuesday night @ 7:30pm on 147.225 MHz. 70 cm net each Friday at 10:00am. HF net each Monday at 9:20am on 14.282. ARES/RACES net 1st Thursday of each month at 7:30pm on 147.225 MHz.

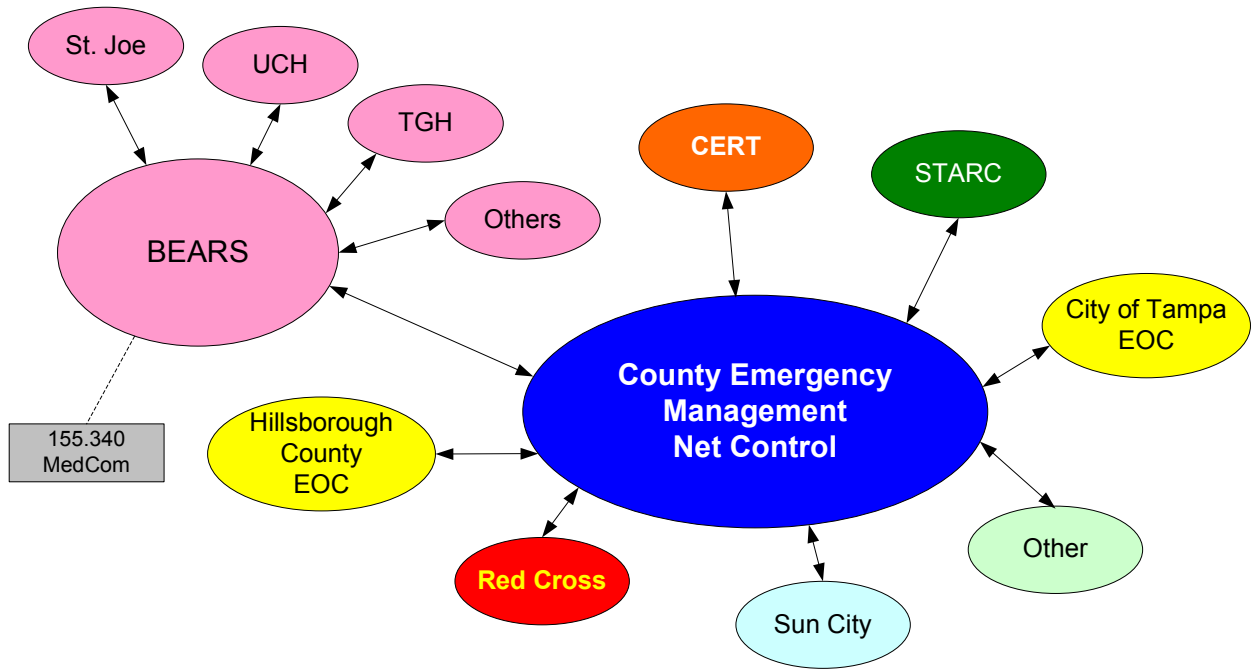
#### Tampa Amateur Radio Club (TARC)

**Call Sign:** W4DUG / N4TP  
**Mailing Address:** P.O. Box 11933 Tampa, FL 33680  
**Physical Address:** 7801 N. 22nd Street Tampa, FL 33610  
**Contact:**  
**Phone:**  
**Email:** [contact-tarc@hamclub.org](mailto:contact-tarc@hamclub.org)  
**Web:** <http://www.hamclub.org>  
**Repeater(s):** N4TP 147.105 + MHz (146.2 Hz PL tone)  
N4TP 443.025 + MHz (146.2 Hz PL tone)  
**Club Meetings:** 1st Monday of each month @ 7:30 pm at the TARC clubhouse located at 7801 N. 22nd Street in Tampa. Two meter radio net each Tuesday night @ 8:00 pm on 147.105 MHz. Informal meetings are held at the clubhouse on the remaining Mondays of each month.

# Appendix 4 Concept of Operation

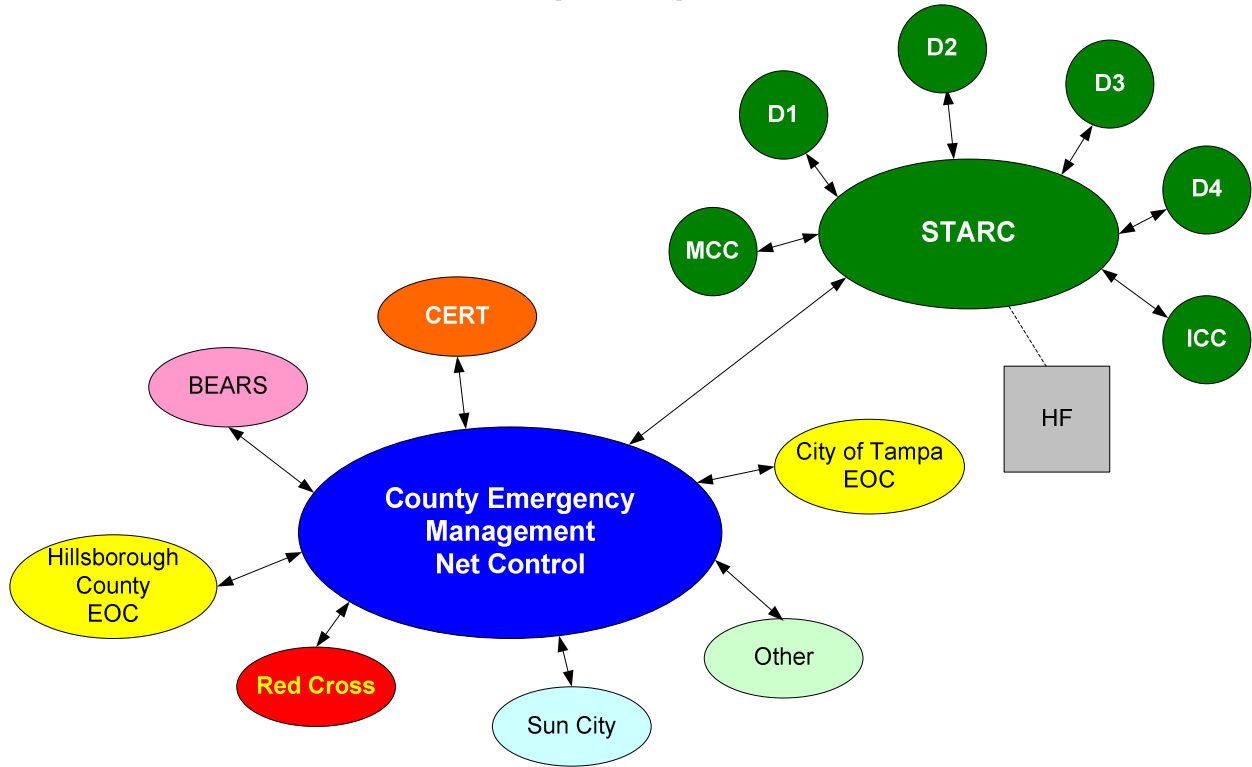


**Net Management**

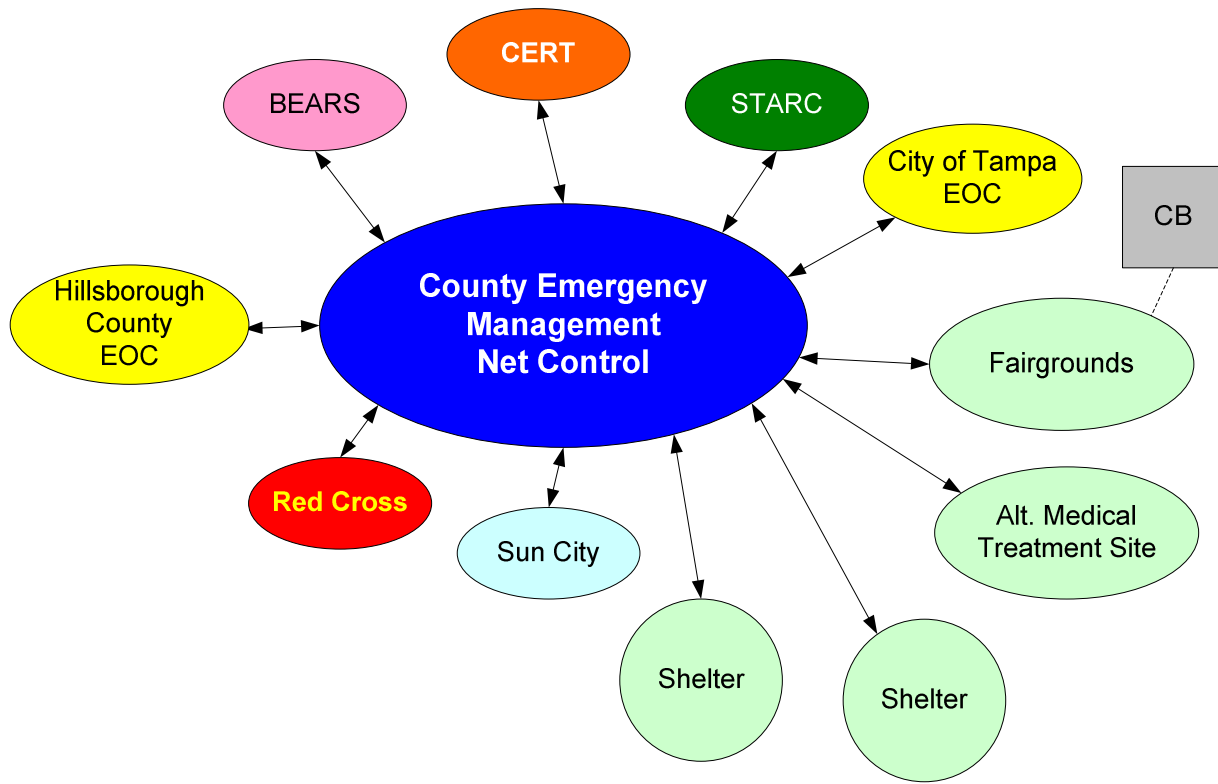


**BEARS**

# Appendix 4 Concept of Operation



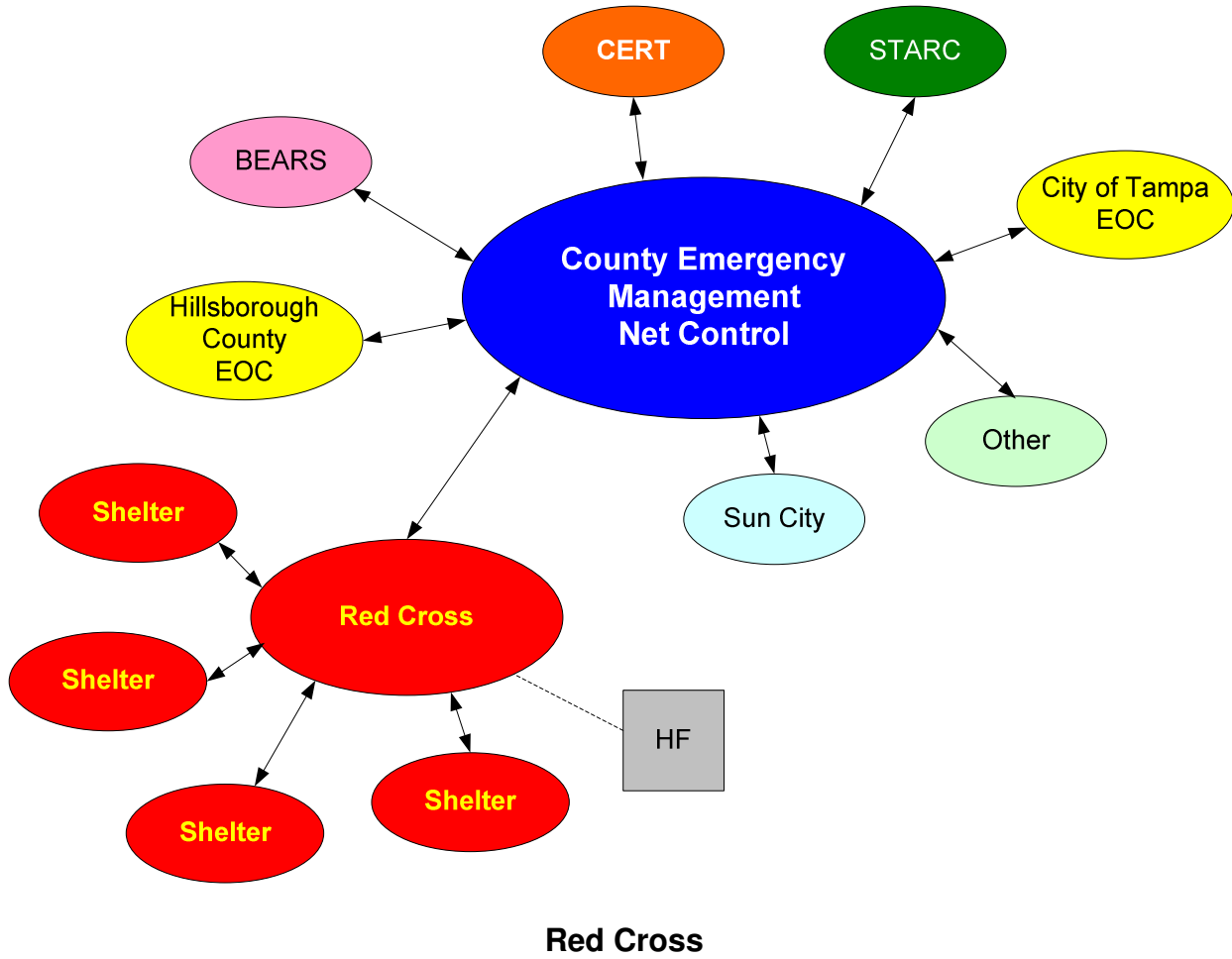
**STARC**



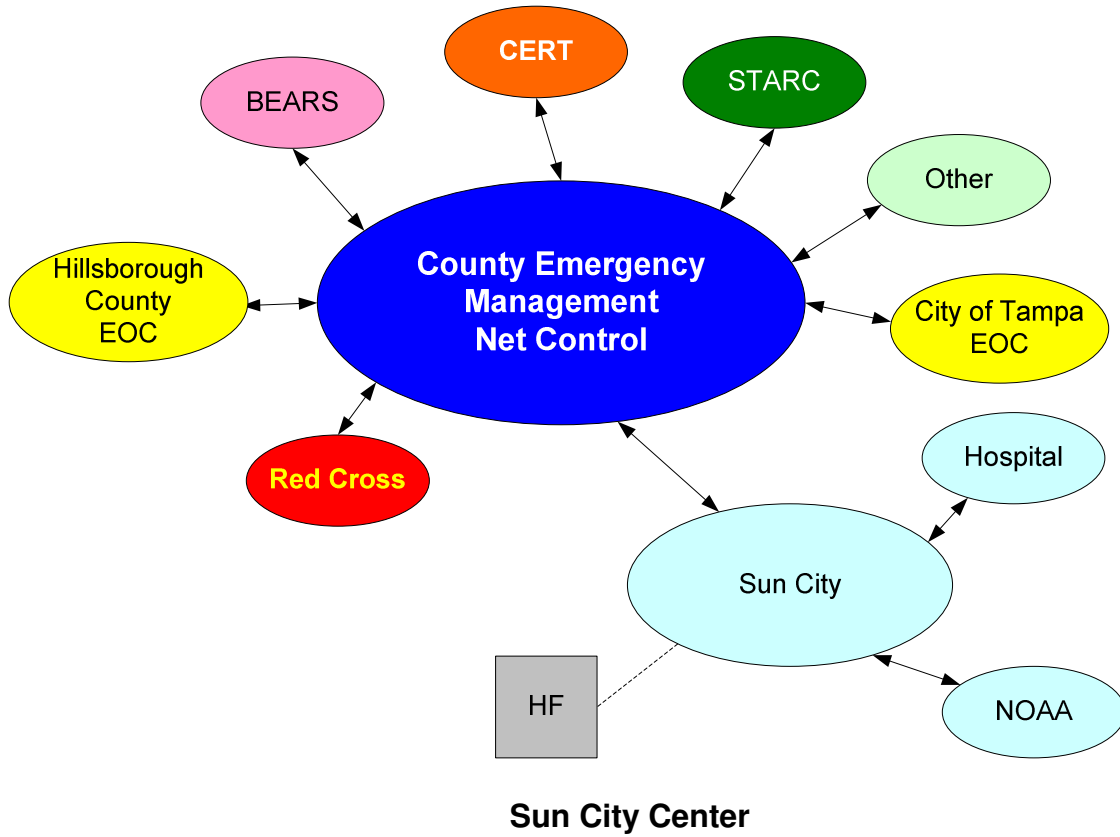
**Alternate Medical Treatment Facility / Logistics**



# Appendix 4 Concept of Operation



# Appendix 4 Concept of Operation



## **Appendix 5 Hillsborough County Emergency Alert Activation Message**

This message is to be announced on all Hillsborough County VHF/UHF amateur radio repeaters.

CQ, CQ, CQ.

This is <your call sign.> All stations stand by for priority traffic. Break.

Attention all stations. Hillsborough County Emergency Management has issued an emergency activation alert. All available amateur stations are requested to change frequencies to the 147.105 N4TP repeater and stand by for net control.

Break.

I say again: Attention all stations. Hillsborough County Emergency Management has issued an emergency activation alert. All available amateur stations are requested to change frequencies to the 147.105 N4TP repeater and stand by for net control.

End of priority traffic.

This is <your call sign>, clear.

Note:

The designated Emergency Management Net Control Station will establish the Emergency Management Net on the 147.105 repeater.

Net control will request stations representing individual organizations to establish separate task specific nets to manage communications based on current conditions. Each organization shall designate a net liaison station that will relay traffic between the organization's net and the County's Emergency Management Net.

See Appendix 4 for this operational concept.





OPERATIONAL PLANNING WORKSHEET				1. INCIDENT NAME		2. DATE PREPARED		3. OPERATIONAL PERIOD (DATE/TIME)						
4. DIVISION OR OTHER LOCATION		5. WORK ASSIGNMENTS		6. RESOURCES BY TYPE (SHOW STRIKE TEAM AS ST)						7. REPORTING LOCATION		8. REQUESTED ARRIVAL TIME		
				RESOURCE										
				TYPE										
				REQ										
				HAVE										
				NEED										
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		9. TOTAL RESOURCES REQUIRED		SINGLE RESOURCES	/	/	/	/	/	/	/	/	/	/
		TOTAL RESOURCES ON HAND		STRIKE TEAMS	/	/	/	/	/	/	/	/	/	/
215 ICS 9-86		TOTAL RESOURCES NEEDED			/	/	/	/	/	/	/	/	/	/
										10. PREPARED BY (NAME AND POSITION)				

RADIO REQUIREMENTS WORKSHEET						1. INCIDENT NAME			2. DATE		3. TIME	
4. BRANCH			5. AGENCY			6. OPERATIONAL PERIOD			7. TACTICAL FREQUENCY			
8. DIVISION/GROUP			DIVISION/GROUP _____			DIVISION/GROUP _____			DIVISION/GROUP _____			
AGENCY _____			AGENCY _____			AGENCY _____			AGENCY _____			
9. AGENCY	ID NO.	RADIO RQMTS	AGENCY	ID NO.	RADIO RQMTS	AGENCY	ID NO.	RADIO RQMTS	AGENCY	ID NO.	RADIO RQMTS	
216 ICS 3-82			PAGE			5. PREPARED BY (COMMUNICATIONS UNIT)						