

Owen County Amateur Radio Emergency Service
Communications Plan

Owen County Indiana



Amateur Radio Emergency Service

&

Radio Amateur Civil Emergency Service

Communications Plan

Produced by Jim Baughn K9EOH

Owen County Amateur Radio Emergency Service **Communications Plan**

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A. SAFETY

While disaster response may require the taking of certain calculated risks in order for us to do our work, ARES members are responsible for their own safety and should do nothing that places them in personal jeopardy. The responder must be constantly aware of his surroundings including, but not limited to hazardous materials, fall hazards, animals, weather or poorly supported structures.

B. FLEXIBILITY

Each disaster is unique. Preparation for ARES disaster response must be comprehensive but not particular. The Owen County method for achieving this is to prepare basic response elements (people, equipment, power sources, procedures and supplies) thoroughly. Then upon mobilization, these elements will be integrated to mitigate the effects of the particular disaster with the most efficiency.

C. DEFINITIONS

1. Amateur Radio Emergency Services (ARES)

The Amateur Radio Emergency Service (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible for membership in the ARES. The only qualification, other than possession of an Amateur Radio license, is a sincere desire to serve. Because ARES is an amateur service, only amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

2. Amateur Radio Relay League (ARRL)

Founded in 1914, the 150,000-member ARRL - The National Association for Amateur Radio[®] is the national association for Amateur Radio in the USA. The ARRL is the primary source of information about what is going on in the ham radio world. It provides books, news, support and information for individuals and clubs, special operating events, all sorts of continuing education classes and other benefits for its members. Being a member of the ARRL is important for hams!

3. Community Emergency Response Team (CERT)

The Community Emergency Response Team (CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and during exercises, CERT members can assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community.

4. Disaster

A disaster is any event, natural or man-made, that causes great harm and/or damage.

5. Emergency Management Agency (EMA)

Generally a county director, who coordinates activities to mitigate, prepare for, respond to and recover from disasters.

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6. Federal Emergency Management Agency (FEMA)

FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain and improve our capability to prepare for, protect against, respond to, recover from and mitigate all hazards.

7. Incident Command System (ICS)

The Incident Command System (ICS) is "a systematic tool used for the command, control, and coordination of emergency response" according to the United States Federal Highway Administration

8. Indiana Department of Homeland Security (IDHS)

The Indiana Department of Homeland Security provides statewide leadership, exemplary customer service, and subject matter expertise for the enhancement of public and private partnerships and the assurance of local, state and federal collaboration to continually develop Indiana's public safety capabilities for the wellbeing and protection of our citizens, property and economy.

9. National Incident Management System (NIMS)

The National Incident Management System (NIMS) is emergency management doctrine used across the United States to coordinate emergency preparedness and incident management and response among the public (Federal, Tribal, state, and local government agencies) and private sectors.

NIMS is a comprehensive, national approach to incident management that is applicable at all jurisdictional levels and across functional disciplines. NIMS enables us to work together to prevent, protect against, respond to, recover from, and mitigate the effects of incidents, regardless of cause, size, location, or complexity, in order to reduce the loss of life and property and harm to the environment.

10. Radio Amateur Civil Emergency Service (RACES)

The Radio Amateur Civil Emergency Service (RACES) is a public service provided by a reserve (volunteer) communications group within government agencies in times of extraordinary need. During periods of RACES activation, certified unpaid personnel are called upon to perform many tasks for the government agencies they serve. Although the exact nature of each activation will be different, the common thread is communications.

The Amateur Radio Regulations, Part 97, Subpart E, §97.407, were created by the FCC to describe RACES operations in detail.

11. State of Disaster Emergency Declaration

Activation of Indiana Code 10 gives the county commissioners an extensive amount of authority. Non-emergency personnel found traveling on any roadways are subject to traffic violation citations and arrest.

12. Travel Status Advisory (Website <http://www.in.gov/dhs/traveladvisory/>)

- **Warning**
 - The highest level of local travel advisory, means that travel may be restricted to emergency management workers only. During a "warning" local travel advisory, individuals are directed to:
 - (A) refrain from all travel;
 - (B) comply with necessary emergency measures;
 - (C) cooperate with public officials and disaster services forces in executing emergency operations plans; and

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(D) obey and comply with the lawful directions of properly identified officers.

- **Watch**

- Means that conditions are threatening to the safety of the public. During a "watch" local travel advisory, only essential travel, such as to and from work or in emergency situations, is recommended, and emergency action plans should be implemented by businesses, schools, government agencies, and other organizations.

- **Advisory**

- The lowest level of local travel advisory, means that routine travel or activities may be restricted in areas because of a hazardous situation, and individuals should use caution or avoid those areas.

13. **WebEOC**

A system used state wide by IDHS. A web-enabled crisis information management system providing secure real-time information sharing to help managers make sound decisions quickly.

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D. ARES ORGANIZATION

1. Administrative

There are four levels of ARES organization--national, section, district and local. National emergency coordination at ARRL Headquarters is under the supervision of the ARRL Field and Educational Services Manager, who is responsible for advising all ARES officials regarding their problems, maintaining contact with federal government and other national officials concerned with amateur emergency communications potential, and in general with carrying out the League's policies regarding emergency communications.

ARRL Field Organization/Public Service Team Leader Steve Ewald, WV1X

a. Section Level

At the section level, the Section Emergency Coordinator is appointed by the Section Manager (who is elected by the ARRL members in his or her section) and works under his/her supervision. In most sections, the SM delegates to the SEC the administration of the section emergency plan and the authority to appoint District and local ECs. Some of the ARRL sections with capable SECs are well organized. A few have scarcely any organization at all. It depends almost entirely on whom the section members have put into office as SM and whom he/she has appointed as SEC.

Section Emergency Coordinator Larry Jones wb9fhp@gmail.com or wb9fhp@winlink.org
Phone: 812-865 -0156

b. Local Level

It is at the local level where most of the real emergency organizing gets accomplished, because this is the level at which most emergencies occur and the level at which ARES leaders make direct contact with the ARES member-volunteers and with officials of the agencies to be served. The local EC is therefore the key contact in the ARES. The EC is appointed by the SEC, usually on the recommendation of the DEC. Depending on how the SEC has set up the section for administrative purposes, the EC may have jurisdiction over a small community or a large city, an entire county or even a group of counties. Whatever jurisdiction is assigned, the EC is in charge of all ARES activities in his area, not just one interest group, one agency, one club or one band.

District Emergency Coordinator Region 7 Gary Adams pgadams@aol.com (Owen, Greene, Clay, Sullivan, Vigo, Vermillion, Parke, Putnam)

Owen County Emergency Coordinator Jim Baughn k9eoh@arrl.net, Home 812 828-0629, Cell 317 585-1385 Monitors 146.52 and 146.58 Simplex, 146.985 Spencer Repeater, 146.895 Gosport Repeater.

E. RACES ORGANIZATION

1. The Indiana Department of Homeland Security (IDHS) Amateur Radio Disaster Communications ("Ham") Team supports auxiliary communications through the RACES program using amateur radio frequencies and any other means necessary. The Team also supports all other amateur emergency communications programs in the state of Indiana.
2. **Purpose of the Monthly NET**
3. The directed NET conducted on the second Sunday of the month at 2200 UTC exercises the communications between the county's EMA and the state EOC over amateur radio frequencies. The

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designated radio operators are encouraged to use any or all of the posted frequencies to test equipment and propagation. Relaying for other counties is encouraged for this net.

4. Frequencies will be used as a calling frequency in the event of a statewide emergency. Current Frequency: 3.920 MHz.
 - a. Who may check in to the Monthly Net - Any amateur station appropriately licensed and designated by the county's EMA Director may check in representing that county. Normally a single station represents each county, and often this station is the ARES EC or the RACES Officer of that county, as authorized by the county's EMA director. Once all counties have been called, NET Control may invite other amateur stations to check in.
5. Current RACES Frequencies in Use
 - a. 3.920 MHz – LSB
 - b. 7.290 MHz – LSB
 - c. 146.490 – FM – Simplex
 - d. W9WIN System
 - e. Echolink 99735
 - f. IRLP 9735
 - g. Packet: w9sem@n9rod#cin.in.usa.noam
 - h. WinLink: w9sem-8@winlink.org
6. Indiana State HF Test
 - a. The directed test conducted twice a year exercises the communications between the County EMAs and the state EOC over amateur radio frequencies. The designated radio operators are encouraged to use any or all of the announced frequencies and modes to test equipment and propagation. Counties checking in are encouraged to relay for other counties to assist and ensure participation in the state test. The use of HF voice and digital modes are highly encouraged.
 - b. Who may check in to the State HF Test
 - c. Any amateur station appropriately licensed by the FCC and designated by the county's EMA director may check in representing that county. A single station represents each county on a given frequency and mode. The EMA director may designate any station to check in to any or all test frequencies and modes as he or she chooses. As part of the Test, counties are encouraged to conduct their own local Nets and to report the count of their check-ins as traffic for this Test. However, individual stations are NOT invited to check in for this test without prior authorization from the EMA director.
 - d. Contact Indiana State RACES: [Greg Oberc](#)

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- e. Indiana RACES Standards and Protocols -
http://www.in.gov/dhs/files/2008_standards_and_protocol.pdf

F. PERSONNEL

1. Membership in ARES shall consist of two levels, Affiliated and Active.

a. Affiliated

Agrees to participate in ARES responses when the emergency is major and all resources that can be brought to bear are needed. Additional participation in ARES activities is optional with the member.

b. Active

Agrees to participate fully including fulfilling the requirements set forth below.

1. Participation in most weekly ARES nets.
2. Become an ARES Net Control Station by being listed on the rotation list of NCS stations. (See Section [G.3](#))
3. Be prepared to activate whenever the Owen County ARES is activated by served agencies for responses or drills. (See Appendix [14.](#))
4. Participate in training and non-emergency public service activities. (See Appendix [13](#))
5. Conform to uniform equipment standards. (See Appendix [11-12.](#))
6. Provide for personal support without re-supply for at least the initial 24 hours of any response.

2. External Licensed Personnel Assets

- a. Owen County licensed non-ARES members
- b. Monroe County ARES/Bloomington Amateur Radio Club (BARC)
- c. Morgan County ARES/RACES
- d. Greene County RACES

3. Unlicensed Personnel Assets

Unlicensed people willing to provide meaningful assistance are welcome. Each must be responsible to a licensed operator. On-air activities by such individuals are discouraged, but possible within Federal Communications Commission regulations for the purpose of response or training.

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4. Personal Support expectations

During the operation, personnel are expected to provide the following support:

- a. Transportation
- b. VHF FM Transceiver or HF Transceiver (28.400 MHz operation)
- c. Antennas and Feed Lines
- d. Energy sources and appropriate chargers
- e. Emergency Communications techniques (voice)
 1. Tactical
 2. Formal
- f. Food and Beverages
- g. Personal items Such as food, water, seasonal clothing, shelter, personal items and lighting should be provided in varieties and amounts dictated by the disaster.
- h. Repair kits
- i. Basic tools and supplies useful for making minor repairs to equipment should be made available by each responder for his/her use.
- j. Self Sufficient
- k. All members should be self sufficient for at least the initial 24 hours of any response

G. OPERATIONS

1. Activating the Owen County Emergency Plan

- a. At the request of government or public service agency officials
- b. Or at the discretion of any amateur radio operator that actively supports the Owen County ARES organization, when conditions warrant.

2. Initial activation

- a. Activate the net.
- b. Contact responders
- c. Agree to the response deployment
- d. Inform the Emergency Coordinator of the activation.

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3. Operational Personnel Resources

- a. Owen County ARES Affiliated Members
- b. Owen County ARES Active members
- c. Owen County Licensed non-ARES Members
- d. Monroe County ARES/Bloomington Amateur Radio Club (BARC)
- e. Morgan County ARES/RACES
- f. Greene County RACES
- g. Unlicensed assistance – As defined in Section [E.3](#).

4. Deployment of Personnel

- a. Net Control Station
- b. Responders to served agencies.
- c. Inter-county (Gateway) operations. (Appendix [F.6.b](#))

5. Participants conduct

- a. Listen before transmitting
- b. Pause after pushing the transmit button to allow the repeater to activate.
- c. Keep transmissions brief. If a longer transmission is needed, break your transmission every 30 seconds.
- d. Refrain from using transmission time to report that 'nothing is happening'.

6. Frequencies

a. Within Owen County

1. Primary: 146.985- MHz 136.5 PL Tone Repeater, FM (Spencer)
2. Secondary: 146.895- MHz 136.5 PL Tone Repeater, FM (Gosport)
3. Tertiary 2 Meter Simplex 146.58 MHz FM
4. Primary 10 Meter Simplex: 28.400 MHz USB Owen County

b. Owen County Gateway Systems

1. Indiana Traffic Net 3.910 USB National Traffic System Indiana Section
2. Indiana CW Net QIN 3.535 National Traffic System Indiana Section
3. Indiana ARES Digital Net: 3.583 MHz USB Olivia 16/500 or MT63
4. Indianapolis National Weather Service 146.97 MHz and 442.650 MHz
5. Indiana RACES 80 Meter - 3.290 MHz - LSB
6. Indiana RACES 40 Meter - 7.290 MHz - LSB

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7. Indiana RACES 2 meter 146.490 MHz - Simplex
8. Indiana RACES Linked system - W9WIN system - <http://www.w9win.net/info.htm>
9. Indiana RACES Internet protocol - Echolink 99735
10. Indiana RACES Internet protocol - IRLP 9735
11. Indiana RACES - Packet w9sem@n9rod #cin.in.usa.noam
12. Indiana RACES - WinLink w9sem-8@winlink.org

7. Traffic

a. Tactical

1. Procedural, but conversational
2. All third party traffic is to be logged
3. Non-licensed third parties may use radio-transmitting equipment directly if emissions are under the direct control of a licensee. This consideration is especially useful if exchanged information is highly technical as between medical professionals.

b. Formal

1. Use standard ARRL format (See Appendix G.)
2. All official messages handled for served agencies must be signed by the agency official taking the responsibility for its contents. His/her title is part of the signature.
3. Stations originating and stations which are the final destination of formal messages must keep a copy of each formal message handled.

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A. APPENDIX

1. ARES Membership Calling List

First Name	Last Name	Call Sign	Home Phone	Work Phone	Cell Phone	Pager	FAX
Gary	Armstrong	KC9AGN	879-4445				
John	Sullivan	WD9BKA	829-3884				
John	Stearley	W9DOC		879-4222			
Jim	Baughn	K9EOH	828-0629	828-0629	317 373-5193		
Stu	Sherfick	W9HRZ	829-6562				
Kathryn	Smith	K9INU	829-2140				
Vicki	McGlocklin	KC9KMV	812 876-1822	812 339-1444	812 360-4671		
Don	Kivett	K9LME	829-3541		239 272-6830		
Marvin	Campbell	K9MRV	935-7682	911	812 272-0101		
Jack	White	KC9OQK	812-829-1430	812 829-5035	812 821-0710	812 828-1588	812 829-2925
Tom	Gwaltney	N9PDC	829-0252		812 219-9575		
Richard K	Eakin	WA9R XR	812 828-9005		812 332-1807		
Buddy	Harris	KB9YAI	828-0235				
Steve	Brown	K9RTO	317-513-5687	317-339-5375	317-513-5687		
Ted	Winkler	N9LKI	961 0636				
Chuck	Henry	KC9NBV	812 935-7944	812 349-0390	812 325-3093		
Steve	Keene	KC9QZH			812 585-1106		
Randall	Hamilton	KC9VIJ	812 829-2675		812 227-0878		
Jacqueline	Schmidt	KC9WKS			317 296-1718		

2. RACES Membership Calling List

First Name	Last Name	Call Sign	Home Phone	Work Phone	Cell Phone	Pager	FAX
Gary	Armstrong	KC9AGN	879-4445				
John	Stearley	W9DOC		879-4222			
Jim	Baughn	K9EOH	828-0629	828-0629	317 373-5193		
Vicki	McGlocklin	KC9KMV	812 876-1822	812 339-1444	812 360-4671		
Jack	White	KC9OQK	812-829-1430	812 829-5035	812 821-0710	812 828-1588	812 829-2925
Steve	Brown	K9RTO	317-513-5687	317-339-5375	317-513-5687		
Chuck	Henry	KC9NBV	812 935-7944	812 349-0390	812 325-3093		
Randall	Hamilton	KC9VIJ	812 829-2675		812 227-0878		

3. Net Control Stations

Call Sign	First Name	Last Name
WD9BKA	John	Sullivan
K9INU	Katie	Smith
KC9AGN	Gary	Armstrong
K9MRV	Marvin	Campbell
KB9YAI	Buddy	Harris
K9TXK	Keith	Bushong
K9EOH	Jim	Baughn
K9RTO	Steve	Brown
KC9YAT	Cameron	Denny

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4. Net Control Station Procedures

a. ARES Weekly Net

1. “This is _____. All stations please stand by for the weekly Owen County Amateur Radio Emergency Service Net.” (DTMF tones 222)
2. “Calling all amateur radio operators to the weekly Owen County Amateur Radio Emergency Service Net. This is a directed net, held each Wednesday evening at 7:00 PM Local Time, on the Gosport repeater the first Wednesday and the Spencer Repeater all other Wednesdays.”
3. “The Spencer Repeater also serves as a meeting place in case of a disaster or communications emergency. Should the Spencer repeater be down, the Gosport repeater will be used for backup.”
4. “This net is held for the purpose of handling traffic, bulletins and information of interest to local amateur radio operators. Traffic that cannot be handled directly to other counties or out of state traffic will be relayed via the Indiana Section level nets.”
5. “Net control for this session is _____ and my name is _____. All radio amateur operators are welcome and encouraged to participate in this net.”
6. “Are there any stations with emergency, priority or time value traffic?”
7. (Handle any such traffic now.)
8. “Are there any mobile or short time stations for check-in?”
9. (Take care of traffic and comments from this group now. They may secure when ready.)
10. (State the ID of the net and the net control operator at least every 10 minutes.)
11. “Are there any stations for check-in Alpha through Foxtrot?”
12. “Alpha through Mike?”
13. “Alpha through Sierra?”
14. “Alpha through Zulu?”
15. (List stations in order of check-in and call for any comments in rotation.)
16. “Are there additional stations for check-in or additional comments?”
17. (Take care of these now.)
18. (After all comments have been made)
19. “Does anyone have anything further for the net?”
20. (If none)

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21. “There being no further business, the Owen County Amateur Radio Emergency service Net will close. This has been the Owen County Amateur Radio Emergency Service Net. Thank you for your participation. (NCS Call) and the Owen County ARES net is now closed” (DTMF tones 111)

b. ARES Severe Weather Net

1. This is _____. The Owen County Severe weather net is now established in (Standby/Green/Yellow/Red) Mode” (333)
2. (If Standby Mode. State reason for net. Incidental use of repeater by others is permissible.)
3. The National Weather service has issued a (tornado watch/flash flood watch, etc.) for Owen County, effective at _____ and expiring at _____.
4. (If Green –Net Activation, Yellow – Reports of Severe Weather, Red – Report of Funnel Cloud, Tornado or imminent threat to life)
5. This is a directed net. Net control is _____ and my name is _____. Unless requesting recognition for checking in or holding emergency traffic, stations will please transmit only at the direction of net control.
6. (If Green Mode – Net activated)
7. The net status is Green.
8. All Stations checking in please advise net control if your status changes.
9. When checking in, Please state your call sign, name, location and whether base, mobile or portable.
10. Are there any stations for check in?
11. Alpha through Mike?
12. Alpha through Zulu?
13. (If called up by request of NWS)
14. Do we have an Indianapolis NWS liaison?
15. Monroe County Liaison?
16. Do we have a NCS backup station?
17. Any severe weather reports are to include call sign of reporting station, time of report, location, type of event and whether measured or estimated.
18. **ESCALATION**
19. (If Yellow Mode – Reports of severe weather)
20. The Net status is Yellow

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21. 'Please report only Tornadoes, funnel clouds, rotating wall clouds, rain in excess of 2" per hour, wind greater than 50 MPH or hail greater than one inch. Keep all transmissions as short as possible.
22. (If Red Mode – Report of funnel cloud, tornado or imminent threat to life)
23. The net status is Red.
24. Hold all but tornado or imminent threat to life reports. If tornado, report location, time of report and direction of travel. Keep all transmission as short as possible.
25. (Check status of mobiles at least every five minutes.)
26. (ID net and NCS every 10 minutes.)
27. **DEACTIVATION**
28. (When released by the State NWS (if active) or when local weather abates, lower the net to Standby mode or end the net.)
29. THIS HAS BEEN THE OWEN COUNTY SEVERE WEATHER NET. THANK YOU FOR YOUR ASSISTANCE. THE NET IS NOW CLOSED AND THIS REPEATER IS RETURNED TO NORMAL USE (DTMF tones 111)
30. _____ Clear.
31. (Inform the state weather net control station, if active and the Owen County ARES EC of net start time, net end time, number of base station check-ins and number of mobile station check-ins.)

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C. ARES Emergency Net

1. "THIS IS _____ THE OWEN COUNTY AMATEUR RADIO EMERGENCY SERVICE NET IS NOW ESTABLISHED IN (STANDBY/OPERATIONAL) MODE" (444).
2. (State reason
3. If 'Standby' mode, repeat the reason frequently, and provide information as it becomes known. Incidental use of the repeater by others is permissible.
4. If 'Operational' mode, continue below)
5. "AT THIS TIME THIS IS A DIRECTED NET. NET CONTROL IS _____ AND MY NAME IS _____. UNLESS REQUESTING RECOGNITION FOR CHECKING IN, OR HOLDING EMERGENCY TRAFFIC, STATIONS WILL PLEASE TRANSMIT ONLY AT THE DIRECTION OF NET CONTROL."
6. ".IS ANY STATION HOLDING EMERGENCY, PRIORITY, OR TIMEVALUE TRAFFIC FOR THE NET?"
7. **(Take care of any such traffic now.)**
8. "ARE THERE STATIONS FOR CHECK-IN? PLEASE STATE YOUR CALL SIGN, LOCATION, AND AVAILABILITY FOR ASSIGNMENT:
9. ALFA THROUGH FOXTROT GOLF THROUGH MIKE NOVEMBER THROUGH TANGO UNIFORM THROUGH ZULU ANYWHERE IN THE ALPHABET."
10. (List stations in order of check-in, and maintains a list of call signs, locations, availability, and assignments.)
11. (State the ID of the net and the net control operator at least every (10) minutes.)
12. "ALL STATIONS CHECKED IN PLEASE ADVISE NET CONTROL IF YOUR NET STATUS CHANGES, OR OF ANY IMMEDIATE NEEDS YOU MAY HAVE"
13. **(The net control station may change the net status as circumstances warrant, and may determine that proper net operation does not require a net control station.)**
14. **(Continue net operations...)**
15. (Deactivation)
16. ".THIS HAS BEEN THE OWEN COUNTY AMATEUR RADIO EMERGENCY SERVICE NET. THANK YOU FOR YOUR ASSISTANCE IN THIS COMMUNICATIONS EMERGENCY. THIS NET IS NOW CLOSED, AND THIS REPEATER RETURNED TO NORMAL USE" (111).

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17. “ _____ CLEAR.”

5. Weather Reporting

a. SPRING/SUMMER/FALL Criteria for NWS Weather Reports

1. Dedicated unlisted report line: 800-499-2133 or espotter
<http://www.crh.noaa.gov/espotter>
2. REPORT: Who you are, what you saw, where you saw it (county and location), when you saw it and what damage you witnessed.
3. RAIN: More than two inches per hour.
4. WIND: speed greater than 50 miles per hour.
5. HAIL: Diameter greater than one-half inch (Report by diameter.)

1/4" – Pea Sized	1" – Quarter	1 3/4" – Golf ball	2 3/4" – Baseball	4 1/2" – Softball
3/4" – Penny	1 1/4" – Half Dollar	2" – Hen Egg	3" – Teacup	
7/8" – Nickel	1 1/2" – Walnut	2 1/2" – Tennis Ball	4" – Grapefruit	

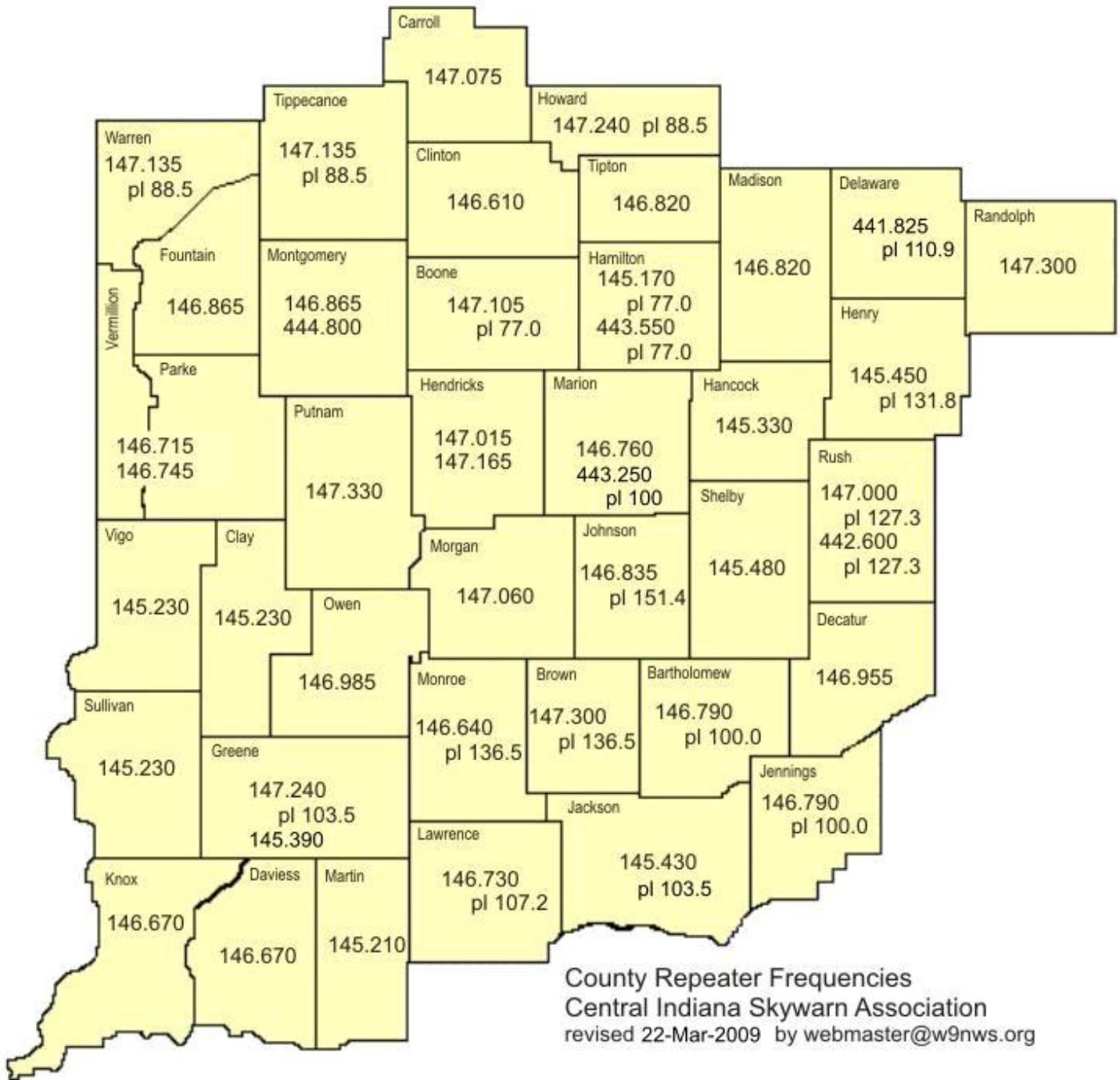
6. TORNADOES, FUNNEL CLOUDS OR ROTATING WALL CLOUDS.

b. WINTER Criteria for NWS Weather Reports

1. Report by email, if possible : <http://www.chr.noaa.gov/ind/index.html>
2. SNOW: Snowfall more than one inch per hour and/or significant blowing/drifted over one foot.
3. SLEET: Beginning and End
4. CHANGE of precipitation type
5. ICE Accumulation and resultant electrical system outages.

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6. Indiana Skywarn Counties And Frequencies



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7. Operational Frequencies

a. Owen County Repeaters

Call Sign	Frequency In	Frequency Out	CTCSS Tone	Location	Note
KB9MZZ	146.385 FM	146.985 FM	136.5	Spencer	ARES Primary
KB9SGN	146.295 FM	146.895 FM	136.5	Gosport	ARES Secondary
HF Operation	28.4 MHz USB	28.4 MHz USB	NA	Owen County	ARES HF

b. Out of County Repeaters

Call Sign	Frequency In	Frequency Out	CTCSS Tone	Location	Note
WB9TLH	146.040	146.640	136.5	Bloomington	ARES
K9IU	146.340	146.940	136.5	Bloomington	
WB9HZX	147.780	147.180		Bloomington	
N9AJS	147.660	147.060		Martinsville	ARES/Skywarn
KA9NPY	147.855	147.255		Martinsville	
W9BJJ	147.930	147.330		Putnamville	
W9HD	147.840	147.240	103.5	Bloomfield	RACES
W9UUU	146.250	146.850		Terre Haute	Skywarn
KB9SGN	448.775	443.775		Bloomington	Skywarn
N9KDB	447.425	442.425		Vicksburg	
KB9SGN	449.475	444.475	136.5	US70/US231	
NC9U	449.350	444.350	98.4	Farmersburg	
W9NWS	146.370	146.970	77.0	Indianapolis	Skywarn NWS
W9NWS	447.650	442.650	77.0	Indianapolis	Skywarn NWS

c. Standard Simplex Frequencies

146.400 146.415 146.430 146.445
 146.460 146.475 146.490 146.50
 146.520** 146.535 146.550 146.565
 146.580* 146.595
 147.405 147.420 147.435 147.450
 147.465 147.480 147.49 147.510
 147.525 147.540 147.555 147.570
 147.585

* Primary Owen County Simplex Frequency

** National Calling Simplex Frequency

Owen County Amateur Radio Emergency Service Communications Plan Appendix

d. State Wide Frequencies

Net	Frequency	Mode
Indiana Traffic Net	3.910	LSB
QIN Indiana CW Net	3.535	CW
INARES Digital Net	3.583	USB Olivia 5/800
INARES Weekly Net	3.900	LSB
RACES Monthly Net	3.920	LSB

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9. Message Form

Number	Precedence	HX	Station of Origin	Check	Place of Origin	Time Filed	Date												
<p>Address _____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>Signed: _____</p>																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">From</td> <td style="width: 33%; text-align: center;">Date</td> <td style="width: 33%; text-align: center;">Time</td> </tr> <tr> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table>				From	Date	Time				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">To</td> <td style="width: 33%; text-align: center;">Date</td> <td style="width: 33%; text-align: center;">Time</td> </tr> <tr> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table>				To	Date	Time			
From	Date	Time																	
To	Date	Time																	
Received				Sent															

Owen County Amateur Radio Emergency Service Communications Plan Appendix

10. Response Configurations

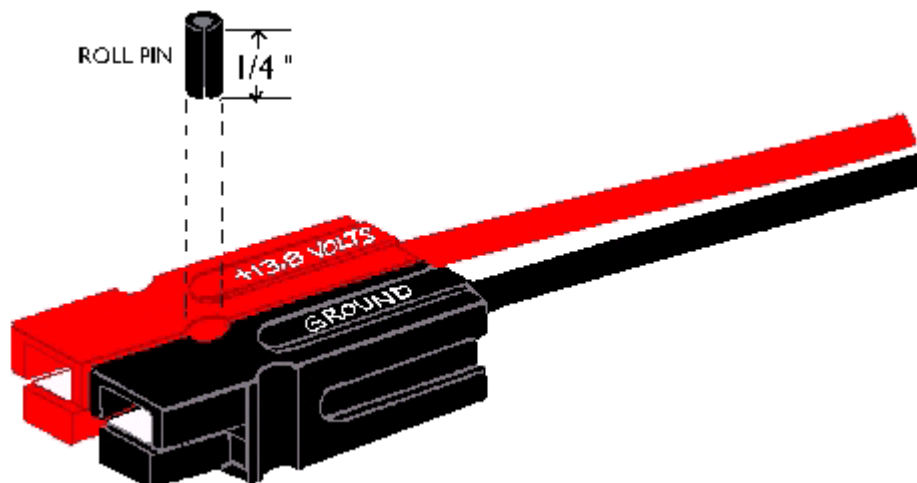
- a. Base at home – Emergency power and fixed antennas
- b. Base at an Operations Center – portable transceiver and antennas
- c. Mobile in your personally owned vehicle (POV)
- d. Mobile in non-amateur vehicle – Magnet antenna and 25 W transceiver with gell cell battery
- e. Pedestrian – Hand held transceiver
- f. Field Location – Portable Antenna, mast, independent power sources and transceiver

11. Uniform Equipment Standards

- a. Provide power pole connection for all response communications equipment (See Appendix [12](#))
- b. Program all response transceivers with standard simplex and Owen County repeater frequencies (See Appendix [7](#))
- c. Ensure the ability to respond in most, if not all, response modes (See Appendix [10](#))
- d. Provide extension feed lines for operations in buildings
- e. Provide battery operation for extended operations
- f. Others as they become apparent

12. Power Pole Connectors

- a. These connectors are the Anderson Powerpoles. These 30 Amp highly reliable connectors allow quick and easy installation and substitution of radios, power supplies, batteries and other equipment.
- b. The housing should be mated according to the following diagram. DO NOT USE METAL PIN. Use a plastic pin or glue to hold the connector housings together.
- c. Further information is available at <http://www.ocraces.org/powerpole.html>



Owen County Amateur Radio Emergency Service Communications Plan Appendix

13. Training

- a. Annual ARRL Field Day – Fourth full weekend in June
- b. Annual ARRL Simulated Emergency Test – First weekend in October
- c. Weekly ARES nets
 - Owen County ARES 2 Meter Net – Wednesdays at 7:00 PM 146.985 MHz Spencer Repeater
- d. Indiana RACES State HF Test – Twice a year
- e. Table top Exercises
- f. Response Exercises
- g. Attendance at weather bureau storm spotter sessions – Generally the third Saturday in March at the Owen County Amateur Radio Club meeting
- h. RACES and ARES Training Material –Power Point presentations zip file
<https://secure.in.gov/dhs/2686.htm>
- i. Instructor lead training such as net procedures, message handling, etc.
- j. Self study – Several courses are available via the ARRL and all members are encouraged to learn as much as possible about all aspects of disaster response.
 1. ARRL Course Catalog - <http://www.arrl.org/cce/courses.html>
 2. Colorado Emergency Communications Material - <http://www.w0ipl.net/ECom/>
 3. WRRL Traffic Handler's Quiz - <http://www.emcomm.org/thc/>
- k. National Incident Management System (NIMS) RACES and ARES members should take
 1. IS-700a NIMS an Introduction - <http://training.fema.gov/emiweb/is/is700a.asp>
 2. IS-100 Introduction to Incident Command System - <http://www.training.fema.gov/EMIWeb/IS/IS100A.asp>
- l. National Incident Management System (NIMS) RACES members should take
 1. IS-200 ICS for Single Resources and Initial Action - <http://training.fema.gov/emiweb/is/is200a.asp>
 2. IS-800 National Response Framework, an Introduction - <http://training.fema.gov/emiweb/is/is800b.asp>
- m. Non-emergency public service activities
 1. Apple Butter Festival Parade Support Communications – Third Saturday in September
 2. Friends of McCormick's Creek and OV YMCA 5 K Run/Walk Communications – First Saturday in April
 3. Other such events as may be requested

Owen County Amateur Radio Emergency Service Communications Plan Appendix

14. Served Agencies

- a. Owen County Emergency Management Agency**
- b.** Jack White, Director, Owen County
- c.** 86 East Market, Spencer, IN 47460
- d.** 812-829-5035 (Office)

15. Other Potential Agencies

- a.** Salvation Army
- b.** Church relief groups
- c.** Law Enforcement
- d.** Volunteer fire departments
- e.** Emergency medical technicians
- f.** Utilities
- g.** Highway/Street departments
- h.** Adjacent County ARES units

16. County Agencies

- a.** Cunot Community Center
SR 42, Cunot
765-795-3461
- b.** Owen County Sheriff Dispatch
SR 46 W, Spencer
Administrative Telephone (non-911) 812-829-4874
- c.** Spencer Christian Church
157 Montgomery Streets, Spencer
812-829-2619

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17. Spencer-Owen Community Schools

- a.** Administration
East Hillside Avenue Spencer
812-829-2233

- b.** High School
West SR 46, Spencer
812-829-2266

- c.** Middle School
East Hillside Avenue Spencer
829-2249

- d.** Patricksburg Elementary School
Patricksburg
812-859-4525

- e.** Gosport Elementary School
Gosport
812-879-4694

- f.** McCormick's Creek Elementary School
East SR46 (Flatwoods Road), Spencer
812-828-6000

- g.** Spencer Elementary School
East Hillside Avenue, Spencer
812-829-2253

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18. VFD Station Locations

Station	Department
Station 1	Coal City Fire Department
Station 3	Franklin Township Fire Department
Station 4	Owen Valley Fire Department
Station 7	Patricksburg Fire Department
Station 11	Cataract Fire Department
Station 16	Clay Township Fire Department
Station 19	Gosport Fire Department

19. Warning Siren Locations

Encoder Number	Location
1001	Whitehall
1002	Gosport
1003	Cunot
1004	Coal City
1005	Cataract
1006	Millgrove
1007	Spencer (Cooper Park)
1008	Freedom
1009	Spencer (OVHS Baseball Field)
1010	Patricksburg
1011	McCormicks Creek School (Utility Building North)
1012	Hoosier Energy (State Roads 43 and 46 Intersection)

Owen County Amateur Radio Emergency Service Communications Plan Appendix

20. Useful Non-Amateur Radio Frequencies

Agency	Frequency	Location
American Red Cross	47.4200	National
American Red Cross	47.4500	National
Cinergy	48.5400	Indiana
Gosport Marshal	159.0900	Gosport
Indiana SEMA	155.0250	Indiana
Indiana SEMA	3.9970	Indiana
Indiana Hospital Emergency Network	155.3400	Indiana
Indiana Law Enforcement Assistance Network	155.4750	Indiana
Indiana Military Department	41.9000	Indiana
Owen County EMA	155.0250	Indiana
Owen County Fire/EMS	154.1450	Owen County
Owen Count Fireground	154.2800	Owen County
Owen County Sheriff Base	159.0900	Owen County
Owen County Highway Department	151.0400	Owen County
REMC	158.1300	Indiana
Sheriff Plan A	155.1300	Indiana
Sheriff Point to Point	155.3700	Indiana
State Highway Department	47.1300	Indiana
State Highway Department	47.2800	Indiana
State Highway Department	47.3600	Indiana

Many agencies are switching to 800 MHz digital SAFE-T trunked system.

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21. Web Links

ARES ARRL

1. ARES Indiana Section– http://www.inarrl.org/inares_index.html
2. ARES National Communications Manual – <http://www.arrl.org/FandES/field/pscm/index.html>
3. ARRL Courses – <http://www.arrl.org/online-courses>
4. ARRL Forms – <http://www.arrl.org/public-service-field-services-forms>
5. ARRL Home Page – <http://www.arrl.org/>
6. ARRL Indiana Section -- <http://www.arrl.org/Groups/view/indiana>

Homeland Departments

7. Homeland Security – <http://www.whitehouse.gov/homeland/>
8. Federal Emergency Management Agency FEMA – <http://www.fema.gov/>
9. Indiana Department of Homeland Security – <http://www.in.gov/sema/>
10. IDHS RACES - <http://www.in.gov/dhs/2686.htm>

References

11. Amateur Radio Call Sign Lookup – <http://www.qrz.com>
12. Frequency Look Up– <http://www.radioreference.com/>
13. Hazardous Materials HazMat Safety– <http://hazmat.dot.gov/>
14. Owen County Amateur Radio Association – <http://www.OwenCountyARA.org>
15. Power Pole Connection – <http://www.ocraces.org/powerpole45.html>
16. W9WIN Linked Repeater System - <http://www.w9win.net/info.htm>

Served Agencies

17. American Red Cross ARC – <http://www.redcross.org>
18. Owen County Emergency Management Agency – <http://www.owencounty.in.gov/index.php?q=content/ema>

Utilities

19. Duke Energy Outage Map - <http://www.duke-energy.com/indiana/outages/current.asp#outagemap>
20. SCI REMC Outage Map - <http://sciremc.maps.sienatech.com/>
21. UDWI REMC - <http://www.udwiremc.com/home.aspx>

Weather Websites

22. Weather Service - Indianapolis – <http://weather.gov/ind>

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23. Weather Service - National – <http://www.nws.noaa.gov/>
24. Weather Service – Storm Prediction Center – <http://www.spc.noaa.gov>
25. Weather Service National Radar - http://radar.weather.gov/Conus/full_loop.php
26. Weather Travel Advisory Indiana - <http://www.in.gov/dhs/traveladvisory/>
27. Weather – IN River Levels - <http://water.weather.gov/ahps/region.php?state=in>

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Corrections:

January 21, 2014

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Remove Keith Bushong N9TXK (SK)

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Section 13.a. Changed forth to fourth