

**A
FIELD MANUAL
FOR
TECHNICAL
SPECIALISTS
IN THE
WEST CENTRAL
FLORIDA
SECTION**

**COMPILED BY GEOFF HAINES N1LGI
TECHNICAL COORDINATOR, WCF SECTION**

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A FIELD MANUAL FOR TECHNICAL SPECIALISTS IN THE WEST CENTRAL FLORIDA SECTION

INTRODUCTION

This manual is intended to be forever a work in progress. As technology changes, procedures and responses will change as well. The material contained herein is intended to be a guide only, since individual situations require individual responses. If anyone in the WCF has ideas for the improvement of this publication, they are strongly encouraged to bring them to the attention of the author. The author desires that this be a collaborative effort on the part of all of the Technical Specialists in the West Central Florida Section, and will happily accept ideas and assistance from any and all who offer it.

-Geoff Haines, N1LGI

Technical Coordinator, WCF

N1lgi@arrl.net

PURPOSE

This project was begun as a way to provide the Technical Specialists in the West Central Florida Section with a resource that would enhance their abilities in assisting other amateur radio operators with problems or questions about the hobby. It is not intended to be a source of answers itself, but rather a kind of directory to simplify the finding of the appropriate answer within the vast resources available to the amateur radio community. Certain information is included since looking up that information takes more time and effort than it would to just include it in the manual. The author (or perhaps a better term would be editor) felt that a "hardcopy" type of reference would be easier to use than a web based one. Many hams use their computers for radio related functions and might appreciate not having to close or minimize a running program just to look something up. The other benefit is of course that when the computer crashes, the reference is still available. It is intended that this "work in progress" will be updated on an "as needed" basis, with amended sections and even whole new chapters available as time and technology change our chosen avocation.

**WEST CENTRAL FLORIDA SECTION
STAFF**

SM

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Manatee Co.
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Official ARRL Field Organization Appointment Description: Technical Specialist

For a section team to be effective in one of the most important arenas in Amateur Radio, technology, there must be a cadre of qualified, competent Technical Specialists (TSs). "Advancement of the radio art" is a profound obligation we incur under the rules of the FCC. TSs help meet this obligation.

Appointment by the [SM](#), or [TC](#) under delegated authority from the SM, the TS supports the TC in two main areas of responsibility: Radio Frequency Interference, and Technical Information. TSs can specialize in certain specific technical areas, or can be generalists. Here is a list of specific job duties:

1. Serve as a technical advisor to local hams and clubs. Correspond by telephone and letter on tech topics. Refer correspondents to other sources if specific topic is outside TS's knowledge.
2. Serve as advisor in radio frequency interference issues. RFI can drive a wedge in neighbor and city relations. It will be the TS with a cool head who will resolve problems. Local hams will come to you for guidance in dealing with interference problems.
3. Speak at local clubs on popular tech topics. Let local clubs know you're available and willing.
4. Represent ARRL at technical symposiums in industry; serve on CATV advisory committees; advise municipal governments on technical matters.
5. Work with other ARRL officials and appointees when called upon for technical advice, especially in emergency communications situations where technical prowess can mean the difference in getting a communications system up and running, the difference between life and death.
6. Handle other miscellaneous technically-related tasks assigned by the Technical Coordinator.

Recruitment of new hams and League members is an integral part of the job of every League appointee. Appointees should take advantage of every opportunity to recruit a new ham or member to foster growth of Field Organization programs, and our abilities to serve the public.

Technical Specialists must hold Novice or higher class license; ARRL membership required.

TECHNICAL SPECIALISTS
WEST CENTRAL FLORIDA SECTION

[Allen, Ed , WA4ISB \(TS/WCF\)](#) Sarasota, FL wa4isb@aol.com

REPEATERS

[Anderson, David M, KG4YZY \(TS/WCF\)](#) New Port Richey, FL

[Dillon, Douglas W, KD4FED \(TS/WCF\)](#) Saint Petersburg, FL

ddillon694@aol.com

A/D CIRCUIT DESIGN

[Dye, Thomas A, AB4EZ \(TS/WCF\)](#) Clearwater, FL ab4ez@arrl.net

LINUX, COMPUTERS, NETWORKING

[Evitt, Edward A, N9AWP \(TS/WCF\)](#) Punta Gorda, FL edevitt@isni.net

REPEATERS

[Foy, Stephen M, KG4OAZ \(TS/WCF\)](#) Palm Harbor, FL smfoy@ieee.org

COMPUTERS, NETWORKING

[Guarro, Daniel T, AG4PN \(TS/WCF\)](#) Bradenton, FL ag4pn@arrl.net

[Haines, Geoffrey E, N1LGI \(TS/WCF\)](#) Bradenton, FL n1lgi@arrl.net

MOBILE INSTALLATIONS, (*TC)

[Huhta, James , AA4MD \(TS/WCF\)](#) Tampa, FL aa4md@amsat.org

AMATEUR SATELLITES

[Knarzer, Reginald L, K9ZKS \(TS/WCF\)](#) Port Charlotte, FL

regknarzer@earthlink.net

TEST EQUIPMENT, RECEIVER DESIGN

[Mallow, Louis E, AG4OD \(TS/WCF\)](#) Bradenton, FL ag4od@arrl.net

[Morgan, Harmon P, WB4OMG \(TS/WCF\)](#) Saint Petersburg, FL

beamar@aol.com

EMI, ANTENNAS, FEEDLINES, POWER AMPLIFIERS

[Morris, James H, W4VUO \(TS/WCF\)](#) Pinellas Park, FL w4vuo@ij.com

RF, RF SAFETY

[Owen, Eric T, KD4MZM \(TS/WCF\)](#) Sarasota, FL kd4mzm@arrl.net

CABLE RFI, RFI

[Owen, Allison L. KE4OLL \(TS/WCF\)](#) Sarasota, FL ke4oll@arrl.net

ADAPTING AMATEUR RADIO FOR THE HEARING IMPAIRED

[Pickering, Alan J, KJ9N \(TS/WCF\)](#) Duette, FL kj9n@juno.com

ANTENNAS, FEEDLINES, 1ST CLASS FCC LIC.

[Pirkle, Rebecca E, KF4TXO \(TS/WCF\)](#) Lakeland, FL kf4xto@hotmail.com

COMPUTERS

[Schwab, Chris , N4BSA \(TS/WCF\)](#) Clearwater, FL n4bsa@arrl.net
APRS, COMPUTERS, NETWORKING

[Smith, Lloyd L, WA9NLA \(TS/WCF\)](#) Port Charlotte, FL
llsdigitek@earthlink.net

COMPUTERS, PROGRAMMING, REPEATERS

[Tomasone, Joseph L, AB2M \(TS/WCF\)](#) Tampa, FL ab2m@ab2m.net
COMPUTERS, WIRELESS LANS, NETWORKING

[Toth, Paul J, NA4AR \(TS/WCF\)](#) Seminole, FL na4ar@arrl.net
APRS, PACKET, HIGH SPEED MULTIMEDIA

[Townsley, John T, AE4GB \(TS/WCF\)](#) New Port Richey, FL ae4gb@arrl.net
AMATEUR SATELLITES

[Zipper, Neal R, KR4IZ \(TS/WCF\)](#) Bradenton, FL kr4iz@arrl.net
LINUX

Technical Information Pages

[ARRL Technical Information Service page](#)

This is an expanding list of technical pages compiled by the ARRL Technical Information Service. It consists of *QST*, *QEX*, Handbook, and original articles on a variety of subjects including theory, tutorials, and projects. Many pages also contain additional sources for materials and information and Web Links of particular interest.

TIS Page Menu

- [Access for the Blind](#)
- [AM Phone Operating and Activities](#)
- Antennas:
 - [Antenna Projects](#) · [Antenna Gain](#) · [Antenna Ground](#) · [Antenna Modeling](#) · [Balloon Antenna](#) · [Grounding](#) · [How Antennas Work](#) · [Limited Space/Indoor/Restrictions](#) · [Receiving Wire Antennas](#) · [Smith Charts](#) · [Transmission Lines/SWR](#) · [Transmatch/Antenna Tuner](#)
- [Antique/Vintage Radio](#)
- Amateur Television:
 - [ATV - Fast Scan TV](#) · [SSTV - Slow Scan TV](#)
- [ALE - Automatic Link Establishment](#)
- [Batteries](#)
- [Buying a Rig](#)
- Beginner Ham:
 - [First Steps in Radio](#) · [Your First Antenna](#) · [Using Your Equipment](#)
- Construction Projects/Techniques:
 - [Antenna Projects](#) · [Building Equipment](#) · [Construction Techniques](#) · ["Hands-On Radio" Column Resources and FAQ Page](#) · [Programmable Integrated Circuit Projects](#) · [Projects for the Ham Shack](#) · [QRP Projects](#) · [Servicing Equipment](#) · [Surface Mount Technology](#) · [Test Equipment Projects](#) · [Tube Amplifiers](#) · [Using Your Equipment](#) · [VHF Projects](#) · [Tube Transmitters/Receivers](#)
- Digital Modes:
 - [AMTOR/Packet/RTTY/TCP/IP](#) · [Automated Packet Reporting System](#) · [Digital Voice](#) · [MFSK](#) · [PSK31](#) · [WEFAX](#)

- [DSP - Digital Signal Processing](#)
- [Direction Finding](#)
- [Emergency/Alternative Power](#)
- [Grid Squares](#)
- [Filters \(RF\)](#)
- [Ham Radio History](#)
- [High-Speed Digital Networks and Multimedia](#)
- [Internet Ham Radio](#)
- [Lab Notes-Complete](#)
- [Laser Communications](#)
- [Lightning Protection](#)
- [Link/Remote Control](#)
- Mobile:

[Automobile](#) · [Marine](#) · [VHF Antennas](#)

- Morse/CW:

[Coherent CW](#)

- [Propagation](#)
- [QRP](#)
- [Repeaters](#)
- [RFI/EMI](#)
- Safety:

[ESD \(Electrostatic Discharge Safety\)](#) · [Electrical Safety](#) · [Grounding](#) · [Lightning Protection](#) · [RF Exposure](#)

- Satellites:

[General](#) · [Phase 3D/OSCAR 40](#)

- [Science Fair/Merit Badge Projects](#)
- [Software Defined Radio](#)
- [UHF/Microwave](#)
- [VLF \(Very Low Frequency\)](#)
- [Weak Signal \(VHF-DX, Meteor Scatter, EME-Moonbounce\)](#)

[ARRL Affiliated Clubs](#)

This page will help you find an ARRL affiliated club near you.

Errors in the data? Please report them to clubs@arrl.org

31 clubs found in section **WCF**, listed alphabetically by **city**

Notes:

- [SSC] = [Special Service Club](#)
- Each club name is a link to a detail page that contains full information about the club.
- If "Other" is shown in the **Services** field, the detail page shows the specific services.

Name: [DESOTO ARC, INC](#)

Specialties: General Interest, Repeater, Digital Modes, Public Service/Emergency Comms

Call sign: W4MIN

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: 1593 NE LIVINGSTON ST
ARCADIA, FL 34266-8817

Contact: DOUGLAS R CHRIST, KN4YT

Phone: (863) 491-0618 (**D**) (863) 491-0618 (**N**)

ARRL Section: WCF

Name: [METROPOLITAN REPEATER ASSN](#) [SSC]

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: W4MRA

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: PO BOX 4028
BAY PINES, FL 33744-4028

Contact: GEORGE J BAUSTERT, W3BL

Web: <http://www.qsl.net/w4mra/>

ARRL Section: WCF

Name: [BRADENTON AMATEUR RADIO CLUB](#) [SSC]

Specialties: General Interest, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: K4BRC

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: 410 51ST AVE W

BRADENTON, FL 34207-2756
Contact: LOUIS E MALLOW, AG4OD
Phone: (941) 746-3748 (D) (941) 746-3748 (N)
Web: <http://www.k4brc.com>
E-mail: k4brc@qsl.net
ARRL Section: WCF

Name: [BRANDON ARS](#)
Specialties: General Interest, Contest, Repeater, School/Youth, Public Service/Emergency Comms, VHF/UHF
Call sign: K4TN
Services: Help for newcomers, Other
Address: 817 PEBBLEWOOD DR
BRANDON, FL 33511-7725
Contact: WILLIAM J JOHNSON, W4WU
Phone: (813) 689-2701 (N)
Web: <http://www.fgcarc.org/bars/>
ARRL Section: WCF

Name: [CLEARWATER ARS \[SSC\]](#)
Specialties: General Interest, DX, Repeater, Public Service/Emergency Comms, VHF/UHF
Call sign: WB4BZF
Services: Help for newcomers, Entry-level classes, Other
Address: PO BOX 5314
CLEARWATER, FL 33758-5314
Contact: ALAN L HANN, K4ALH
Phone: (727) 397-8368 (D) (727) 539-7429 (N)
Web: <http://www.carshamradio.org>
ARRL Section: WCF

Name: [EXTRA CLASS AMATEUR RADIO CLUB](#)
Specialties: General Interest, Repeater, Public Service/Emergency Comms, VHF/UHF
Call sign: WX4TRA
Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other
Address: PO BOX 550
4523 123RD STREET CT., WEST
CORTEZ COMMUNITY CENTER
CORTEZ, FL 34215-0550
Contact: JOSEPH RUBIN, W4CBJ
Phone: (941) 708-4935 FAX (D) (941) 856-0500 (N)
E-mail: wx4tra@arrl.net
ARRL Section: WCF

Name: [TRAVELER'S REST ARC](#)
Specialties: General Interest, Public Service/Emergency Comms

Call sign: KF4BDJ

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: 29129 JOHNSTON RD

COMMUNITY CENTER

DADE CITY, FL 33523-6128

Contact: JESSE F HICKAM JR, N3RSD

Phone: (352) 588-0098 (D)

E-mail: reservations@travelersresort.com

ARRL Section: WCF

Name: [LAKELAND ARC INC](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: K4LKL

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: P.O. BOX 792

EATON PARK, FL 33840

Contact: ROBERT J HERRING, N4DOA

Phone: (863) 687-0834 (D)

Web: <http://lakelandarc.homestead.com>

E-mail: k4lkl@arrl.net

ARRL Section: WCF

Name: [TAMIAMI AMATEUR RADIO CLUB](#)

Specialties: General Interest

Call sign: W4AC

Services: Help for newcomers, Other

Address: 1419 E MANASOTA BEACH RD

ENGLEWOOD, FL 34223-6341

Contact: JOHN R SPROAT JR, W4JS

Phone: (941) 475-1929 (D) (941) 475-1929 (N)

E-mail: w4js@juno.com

ARRL Section: WCF

Name: [ENGLEWOOD ARS](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: K8ONV

Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other

Address: 998 BAY VISTA BLVD

ENGLEWOOD, FL 34223-2408

Contact: KENNETH B ANDERSON, W4JQT

Phone: (941) 475-3172 (D) (941) 475-3172 (N)

Web: <http://www.earsradioclub.org>

E-mail: w4jqt@ewol.com

ARRL Section: WCF

Name: [THUNDER BAY ARA](#)

Specialties: Digital Modes, Public Service/Emergency Comms, VHF/UHF

Services: Entry-level classes, Other

Address: 828 LAKE PALMS DR
WILLIAM H HOLCOMB KC4YTP
LARGO, FL 33771-3236

Contact: WILLIAM HOLCOMB, K4NIO

Phone: (727) 530-7354 (N)

E-mail: k4nio@earthlink.net

ARRL Section: WCF

Name: [POLK HAM CLUB](#)

Specialties: General Interest, Public Service/Emergency Comms, VHF/UHF

Call sign: W4TJM

Services: Help for newcomers

Address: PO BOX 213
MULBERRY, FL 33860-0213

Contact: EVERETT SIEBERT, KD4BGY

Phone: (941) 425-2069 (D) (941) 425-2069 (N)

E-mail: popsiebert@att.net

ARRL Section: WCF

Name: [FLORIDA CONTEST GROUP](#)

Specialties: Contest

Call sign: K4FCG

Services: Help for newcomers, Other

Address: 9933 289TH ST SE
MYAKKA CITY, FL 34251

Contact: DANIEL E STREET, K1TO

Web: <http://www.floridacontestgroup.org/>

E-mail: k1to@aol.com

ARRL Section: WCF

Name: [GULF COAST ARC](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: WA4GDN

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: P.O. BOX 595
NEW PORT RICHEY, FL 34656-0595

Contact: JERRY R PATTERSON, K4JHK

Phone: (727) 375-9997 (D)

Web: <http://www.gulfcoastarc.org>

E-mail: secretary@gulfcoastarc.org

ARRL Section: WCF

Name: [SUNCOAST ARC](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: WA4T

Services: Help for newcomers, RFI help, Other

Address: SUNCOAST ARC

POB 1992

NEW PORT RICHEY, FL 34656

Contact: RONALD A WRIGHT, N9EE

Phone: (727) 376-6575 (D) (727) 376-6575 (N)

Web: <http://www.qsl.net/sarc>

E-mail: wa4t@arrl.net

ARRL Section: WCF

Name: [NORTH PORT ARC](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: KI4DEH

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: PO BOX 7716

NORTH PORT, FL 34287-0716

Contact: ROBERT W STUBBINS, KI4FJT

Phone: (941) 423-3061 (D) (941) 423-3061 (N)

Web: <http://www.northparc.org>

ARRL Section: WCF

Name: [MANATEE ARC](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: K4GG

Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other

Address: PO BOX 1623

ONECO, FL 34264-1623

Contact: JERRY J JOHNSON, AE4XW

Phone: (941) 747-3374 (D) (941) 747-2098 (N)

Web: <http://www.k4gg.org>

E-mail: jjohns28@tampabay.rr.com

ARRL Section: WCF

Name: [PINELLAS AMATEUR RADIO KLUB](#)

Specialties: General Interest, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: W4BLW

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: 5037 88TH AVE

PINELLAS PARK, FL 33782-5306

Contact: GEORGE J BAUSTERT, W3BL

Phone: (727) 541-2895 (D)

Web: <http://www.qsl.net/w4blw>

E-mail: w3bl@ij.net

ARRL Section: WCF

Name: [CHARLOTTE AMATEUR RADIO SOCIETY, INC.](#)

Specialties: General Interest, Repeater, Public Service/Emergency Comms

Call sign: WX4E

Services: Help for newcomers, RFI help, Other

Address: P.O. BOX 510415

PUNTA GORDA, FL 33951-0415

Contact: LOUIS E NAGY, N1MAH

Phone: (941) 743-9619 (D) (941) 743-9619 (N)

E-mail: lounagy@gate.net

ARRL Section: WCF

Name: [PEACE RIVER RADIO ASSN.](#)

Specialties: General Interest, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: W4DUX

Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other

Address: PO BOX 510943

PUNTA GORDA, FL 33951-0943

Contact: JACK KEIM, KE4IM

Phone: (941) 575-8221 (D) (941) 575-8221 (N)

Web: <http://home1.gte.net/res04c83/prra.htm>

E-mail: ke4im@sunline.net

ARRL Section: WCF

Name: [ST PETERSBURG ARC](#)

Specialties: General Interest, Contest, Repeater, Public Service/Emergency Comms, VHF/UHF

Call sign: W4GAC

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: POB 4026

SAINT PETERSBURG, FL 33731-4026

Contact: GERALD D TURNER, N4GD

Phone: (727) 548-7474 (D) (727) 548-7474 (N)

Web: <http://www.qsl.net/w4gac>

ARRL Section: WCF

Name: [SARASOTA ARA](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: W4IE

Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other

Address: POB 3182

SARASOTA, FL 34240

Contact: WILLIAM E MARTIN, KI4ZJ

Phone: (941) 378-8281 (D) (941) 378-8281 (N)

Web: <http://www.saraclub.org>

E-mail: ki4zj@netzero.net

ARRL Section: WCF

Name: [SARASOTA EMERGENCY RADIO CLUB \[SSC\]](#)

Specialties: General Interest, Repeater, Public Service/Emergency Comms

Call sign: N4SER

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: PO BOX 1175

SARASOTA, FL 34230-1175

Contact: RON C WETJEN, WD4AHZ

Phone: (941) 371-7786 (D) (941) 371-7786 (N)

Web: <http://www.qsl.net/serc>

E-mail: n4ser@arrl.net

ARRL Section: WCF

Name: [WEST CENTRAL FLORIDA GROUP, INC.](#) (Regional/National)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: K4WCF

Services: Other

Address: 3024 SALEM AVE

SARASOTA, FL 34237

Contact: DAVID M ARMBRUST, AE4MR

Phone: (941) 922-8857 (D) (941) 378-1701 (N)

Web: <http://www.k4wcf.org>

E-mail: ae4mr@arrl.org

ARRL Section: WCF

Name: [HIGHLANDS COUNTY ARC](#)

Specialties: General Interest, Contest, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Services: Help for newcomers, Entry-level classes, Higher-level classes, Other

Address: PO BOX 7441

SEBRING, FL 33872-0108

Contact: JAMES B WILBANKS III, KA6R

Phone: (863) 314-0963 (D) (863) 314-0963 (N)

Web: <http://www.strato.net/~hamradio>

E-mail: benw01@earthlink.net

ARRL Section: WCF

Name: [HONEYWELL EMERG AR TEAM](#)

Specialties: Repeater

Call sign: WD0DIA

Services: Help for newcomers, Other

Address: 1465 51ST AVE NE
ST PETERSBURG, FL 33703-3210

Phone: (727) 539-4825 (D) (727) 522-3013 (N)

Web: <http://qsl.net/heart/>

E-mail: wd0dia@earthlink.net

ARRL Section: WCF

Name: [TAMPA AMATEUR RADIO CLUB](#) [SSC]

Specialties: General Interest, Contest, DX, Repeater, Public Service/Emergency Comms, VHF/UHF

Call sign: W4DUG

Services: Help for newcomers, Entry-level classes, RFI help, Other

Address: P.O. BOX 11933
TAMPA, FL 33680

Contact: BIFF T CRAINE, CHAIRMAN, K4LAW

Phone: (813) 223-3888 (D) (813) 265-4812 (N)

Web: <http://www.hamclub.org>

E-mail: tarinfo@hamclub.org

ARRL Section: WCF

Name: [FLORIDA GULF COAST AR COUNCIL](#) (Club Council)

Call sign: KF4CNH

Services: Help for newcomers, Other

Address: PO BOX 22042
TAMPA, FL 33622-2042

Contact: JAMES R SCHILLING, KG4JSZ

Phone: (407) 356-3574 (D) (863) 422-0176 (N)

Web: <http://www.fcgarc.org>

E-mail: kg4jsz@arrl.net

ARRL Section: WCF

Name: [BAYCARE EMERGENCY AMATEUR RADIO SERVICE](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: W4TCH

Services: Help for newcomers, RFI help, Other

Address: ST. JOSEPH'S HOSPITAL
3001 WEST MLK BLVD
TAMPA, FL 33607

Contact: LEONARD L CALAHAN, KG4DWY

Phone: (813) 870-4570 (D) (813) 227-3238 PAGER (N)

Web: <http://www.w4tch.org>

ARRL Section: WCF

Name: [SHERIFF'S TACTICAL ARC](#)

Specialties: General Interest, Repeater, Digital Modes, Public Service/Emergency Comms, VHF/UHF

Call sign: W4HSO

Services: Help for newcomers, Other

Address: 1221 CALLISTA AVE

VALRICO, FL 33594-7003

Contact: DANIEL MANFRE, W2NDP

Phone: (813) 657-7354 (D)

Web: <http://www.hcso.tampa.fl.us/STAmateurRadioClub/newstarc.htm>

E-mail: w4hso@arrl.net

ARRL Section: WCF

Name: [EAST PASCO ARS](#)

Specialties: General Interest, Contest, DX, Repeater, Digital Modes, School/Youth, Public Service/Emergency Comms, VHF/UHF

Call sign: K4EX

Services: Help for newcomers, Entry-level classes, Higher-level classes, RFI help, Other

Address: 28715 TANNER DR

ZEPHERHILLS, FL 33543-5406

Contact: DUANE G ARCHIBALD, N4WDH

Phone: (813) 991-7160 (N)

Web: <http://www.epars.org>

ARRL Section: WCF

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Page author: clubs@arrl.org

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THE ARRL PUBLIC SERVICE HONOR ROLL

Month and Year: _____

My Amateur Radio call sign is _____

Please report your PSHR activity to your Section Manager or Section Traffic Manager who, in turn, will compile the reports and send them to ARRL HQ for listing in QST. To find out who your SM or STM is, refer to this page: <http://www.arrl.org/sections/index.html>.

This listing is to recognize those amateurs whose versatile public service performance during the month noted above qualifies them for the necessary point totals for PSHR in the following six categories. (As reported to their Section Managers or Section Traffic Managers) Please note the maximum points allowed in each category.

1. Participation in a public service net – 1 point; maximum 40.
2. Handling formal messages (radiograms) via any mode – 1 point for each message handled; maximum 40.
3. Serving in an ARRL-sponsored volunteer position: ARRL Field Organization appointee or Section Manager, NTS Net Manager, TCC Director, TCC member, NTS official or appointee above the Section level – 10 points for each position; maximum 30.
4. Participation in scheduled, short-term public service events such as walk-athons, bike-a-thons, parades, simulated emergency tests and related practice events. This includes off-the-air meetings and coordination efforts with related emergency groups and served agencies – 5 points per hours (or any portion thereof) of time spent in either coordinating and/or operating in the public service event; no limit.
5. Participation in an unplanned emergency response when the Amateur Radio operator is on the scene. This also includes unplanned incident requests by public or served agencies for Amateur Radio participation – 5 points per hour (or any portion thereof) of time spent directly involved in the emergency operation; no limit.
6. Providing and maintaining (a) an automated digital system that handles ARRL radiogram-formatted messages; (b) a Web page or e-mail list server oriented toward Amateur Radio public service – 10 points per item.

Monthly qualifying total: 70 points

Station	PSHR Category						TOTAL
Maximum	1	2	3	4	5	6	
Points earned	(40)	(40)	(30)				

ARRL Communications Procedures

Voice	Code	Situation
Go ahead	K	Used after calling CQ, or at the end of a transmission, to indicate any station is invited to transmit.
Over	AR	Used after a call to a specific station, before the contact has been established
	KN	Used at the end of any transmission when only the specific station contacted is invited to answer.
Stand by or wait	AS	A temporary interruption of the contact.
Roger	R	Indicates a transmission has been received correctly and in full.
Clear	SK	End of contact. SK is sent before the final identification.
Leaving the air or closing the station	CL	Indicates that a station is going off the air, and will not listen or answer any further calls. CL is sent after the final identification.

ITU Phonetic Alphabet

Word list adopted by the International Telecommunications Union

A	Alfa
B	Bravo
C	Charlie
D	Delta
E	Echo
F	Foxtrot
G	Golf
H	Hotel
I	India
J	Juliett
K	Kilo
L	Lima
M	Mike
N	November
O	Oscar
P	Papa
Q	Quebec
R	Romeo
S	Sierra
T	Tango
U	Uniform
V	Victor
W	Wiskey
X	X-ray
Y	Yankee
Z	Zulu

The R-S-T System

Readability

- 1 Unreadable
- 2 Barely readable, occasional words distinguishable.
- 3 Readable with considerable difficulty.
- 4 Readable with practically no difficulty.
- 5 Perfectly readable.

Signal Strength

- 1 Faint signals, barely perceptible.
- 2 Very weak signals.
- 3 Weak signals.
- 4 Fair signals.
- 5 Fairly good signals.
- 6 Good signals.
- 7 Moderately strong signals.
- 8 Strong signals.
- 9 Extremely strong signals.

Tone

- 1 Sixty cycle a.c or less, very rough and broad.
- 2 Very rough a.c., very harsh and broad.
- 3 Rough a.c. tone, rectified but not filtered.
- 4 Rough note, some trace of filtering.
- 5 Filtered rectified a.c. but strongly ripple-modulated.
- 6 Filtered tone, definite trace of ripple modulation.
- 7 Near pure tone, trace of ripple modulation.
- 8 Near perfect tone, slight trace of modulation.
- 9 Perfect tone, no trace of ripple or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K. The above reporting system is used on both cw and voice, leaving out the "tone" report on voice. Turn card over for examples.

Time Conversion Chart

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500

1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400*	2000	1900	1800	1700	1600

Universal Coordinated Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15 degrees in longitude. The five time zones in the US proper and Canada roughly follow these lines.

* 0000 and 2400 are interchangeable. (2400 is associated with the date of the day ending, 0000 with the day just starting.)

PREAMBLE FOR WEST CENTRAL FLORIDA SECTION
TECHNICAL NET

CQ CQ CQ THE WEST CENTRAL FLORIDA SECTION TECHNICAL NET.

THIS IS _____(your call sign) AND MY NAME IS _____(your name) AND I AM
YOUR NET CONTROL FOR THIS EVENING'S NET.

THIS NET MEETS WEEKLY ON THURSDAY NIGHTS AT 2100 HRS LOCAL..
IT'S PURPOSE IS TO PROVIDE A FORUM FOR THE EXCHANGE OF IDEAS, INFORMATION
AND TECHNICAL ASSISTANCE IN ALL AREAS OF AMATEUR RADIO TECHNOLOGY.

BEFORE WE BEGIN, DO WE HAVE ANY STATIONS WITH EMERGENCY OR PRIORITY
TRAFFIC?

(Repeat the request for emergency or priority traffic, if no response then continue)

THIS NET IS HELD ON THE NI4CE REPEATER SYSTEM, ON 145.430 AND 442.950 FROM VERNA
TOWNSHIP IN EASTERN MANATEE COUNTY, 146.760 IN SOUTHWEST PASCO COUNTY, AND
145.29 AND 443.45 IN DOWNTOWN ST. PETE. ALL REPEATERS REQUIRE A PL TONE OF 100
HZ. FOR ACCESS.

NET CONTROL WILL NOW CALL FOR SECTION OFFICIALS AND TECHNICAL SPECIALISTS.
CHECK IN NOW PLEASE, _____(your call sign) STANDING BY.

(Take checkins from section officials and tech specialists, when done, continue.)

NET CONTROL WILL NOW TAKE GENERAL CHECKINS. PLEASE COME SLOWLY WITH YOUR
CALLSIGN AND YOUR FIRST NAME. PLEASE USE ITU PHONICS AND COME SLOWLY. NET
CONTROL WILL ACKNOWLEDGE EACH STATION IN TURN. IF YOU HAVE A QUESTION OR
COMMENT FOR TONIGHT'S NET, PLEASE STATE THAT YOU HAVE TRAFFIC WHEN YOU
CHECK IN. NET CONTROL WILL COME BACK TO THE STATIONS THAT HAVE TRAFFIC IN
THE ORDER IN WHICH THEY CHECKED IN.

CHECKINS TO THE WEST CENTRAL FLORIDA TECH NET, PLEASE COME ONE AT A TIME
AND INDICATE IF YOU HAVE TRAFFIC FOR THE NET.

(take checkins for a few minutes at least. Once you have a few people checked in, go back and pick up
those with questions or comments. Questions should be directed to the appropriate technical specialist but
if none is available, throw the question out to the participants for anyone to reply to.)

WE WILL NOW GO BACK AND TAKE OUR QUESTIONS AND COMMENTS.WHEN THE
QUESTION IS POSED, WE WILL DIRECT IT TO THE APPROPRIATE TECHNICAL SPECIALIST
TO ANSWER. AFTER THE TECH SPECIALIST (IF AVAILABLE) HAS ANSWERED THE
QUESTION WE INVITE COMMENTS AND FOLLOWUP FROM NET CHECKINS.

If a topic is to be presented on any subject, it should be no more than five minutes in length and should
occur after one or more rounds of checkins to the net.

THE TECHNICAL COORDINATOR ASKS THAT ANY AMATEUR OPERATOR WHO HAS
SPECIAL EXPERTISE IN ANY AREA OF HAM RADIO TO CONTACT HIM AND APPLY FOR A
TECHNICAL SPECIALIST APPOINTMENT. MANY HAMS ARE NEW TO THE HOBBY AND EVEN
THOSE WITH MANY YEARS OF EXPERIENCE SOMETIMES NEED HELP WITH NEW MODES
OR OTHER ASPECTS OF THE HOBBY.

ARE THERE ANY FURTHER CHECKINS BEFORE WE CLOSE THE NET?

THE WEST CENTRAL FLORIDA SECTION THANKS THE WEST CENTRAL FLORIDA GROUP,
OPERATORS OF THE NI4CE REPEATER FOR THE USE OF THE REPEATER FOR THIS NET.

THIS IS _____(your call sign) CLOSING THIS SESSION OF THE WEST CENTRAL
FLORIDA SECTION TECHNICAL NET AT _____HOURS AND RETURNING THE
NI4CE REPEATER SYSTEM TO NORMAL OPERATION.

73

_____ (your call sign) CLEAR.



ARRL WEST CENTRAL FLORIDA SECTION
TECHNICAL NET LOG



NET CONTROL STATION _____ DATE _____ TIME _____

SECTION OFFICIALS

TECHNICAL SPECIALISTS

QUESTIONS/COMMENTS

CHECK INS

TOTAL _____

PRESENTATIONS/PRESENTERS

TIME NET CLOSED _____ ELAPSED TIME _____



**The American Radio Relay League
RADIOGRAM
Via Amateur Radio**

Number	Precedence	HX	Station of Origin	Check	Place of Origin	Time Filed	Date
--------	------------	----	-------------------	-------	-----------------	------------	------

To:

This Radio Message was received at: Amateur Station _____ Date _____ Name _____ Street Address _____ City, State, Zip _____

Telephone Number:

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

REC'D	From	Date	Time	SENT	To	Date	Time
-------	------	------	------	------	----	------	------

A licensed Amateur Radio Operator, whose address is shown above, handled this message free of charge. As such messages are handled solely for the pleasure of operating, a "Ham" Operator can accept no compensation. A return message may be filed with the "Ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225, Main Street, Newington, CT 06111.

The American Radio Relay League, Inc. is the National Membership Society of licensed radio amateurs and the publisher of *QST* Magazine. One of its functions is promotion of public service communication among Amateur Operators. To that end, The League has organized the National Traffic System for daily nationwide message handling.



**The American Radio Relay League
RADIOGRAM
Via Amateur Radio**

Number	Precedence	HX	Station of Origin	Check	Place of Origin	Time Filed	Date
--------	------------	----	-------------------	-------	-----------------	------------	------

To:

This Radio Message was received at: Amateur Station _____ Date _____ Name _____ Street Address _____ City, State, Zip _____

Telephone Number:

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

REC'D	From	Date	Time	SENT	To	Date	Time
-------	------	------	------	------	----	------	------

A licensed Amateur Radio Operator, whose address is shown above, handled this message free of charge. As such messages are handled solely for the pleasure of operating, a "Ham" Operator can accept no compensation. A return message may be filed with the "Ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225, Main Street, Newington, CT 06111.

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FSD-3

Relief Emergency · Routine Messages Recommended Precedences

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 .Example: NR 1 R W1AW ARL 5 NEWINGTON CONN. DEC 25 DONALD R. SMITH AAA 164 EAST SIXTH AVE AAA NORTH RIVER CITY MO AAA PHONE 73-3968 BT ARL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult The ARRL Operating Manual, published by ARRL.

Group One—For Possible “Relief Emergency” Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. 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 additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio 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 with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists 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 with _____ on 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.

Group Two—Routine Messages

- FORTY SIX Greetings on your birthday and best wishes for many more to come.
- 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 pleasant _____ holiday season.
- SIXTY THREE Victory or defeat, our best wishes are with you. Hope you win.
- SIXTY FOUR Arrived safely at _____.

- SIXTY FIVE Arriving ____ on _____. Please arrange to meet me there.
- SIXTY SIX DX QSLs are on hand for you at the ____ QSL Bureau. Send ____ self addressed envelopes.
- SIXTY SEVEN Your message number ____ undeliverable 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 Precedences

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.



ARRL FIELD ORGANIZATION

APPLICATION FOR STATION APPOINTMENT

Name: _____ Call sign: _____

Address: _____

Telephone number: (Day) _____ (Evening) _____

I hereby apply for the following appointment(s):

- | | |
|---|--|
| <input type="checkbox"/> Official Relay Station | <input type="checkbox"/> Official Emergency Station ** |
| <input type="checkbox"/> Official Observer | <input type="checkbox"/> Technical Specialist |
| <input type="checkbox"/> Public Information Officer | <input type="checkbox"/> Local Government Liaison |

** (For OES only) Recommending EC/DEC (Name/Call sign) :

My qualifications are:
(describe appropriate experience and/or interest)

I agree to maintain current League membership, and report my station activity on a regular basis.

Signed: _____ Date: _____

**SEND YOUR COMPLETED APPLICATION TO YOUR SECTION MANAGER
(ADDRESS LISTED ON PAGE ON PAGE 12 IN EVERY ISSUE OF QST.)**

ARRL Members: Join The Field Organization!

Want to have some serious fun? Try something different? Make new friends? All while giving something back to Amateur Radio and going above the call in supporting *your* League? Join the ARRL Field Organization, the family of official League volunteers! Choose from the menu of appointments below, fill out the form on the other side, and send it to your Section Manager (his/her address is listed on page 12 of every issue of *QST*). You'll be glad you did!

Official Relay Station--If you handle traffic (ARRL radiograms) regularly on HF and/or repeater nets, this appointment is for you. Traffic handling is a great way to hone your operating skills, and meet new friends. The League was founded in 1914 on the principle of relaying messages via Amateur Radio. Monthly reporting is required.

Official Emergency Station--OES appointees are involved in emergency preparedness and operating. Requirements include regular participation in the local Amateur Radio Emergency Service (ARES) drills and tests, emergency nets and, of course, real emergency situations. OES appointees must be able to operate on emergency (battery, for example) power and have at least one-band mobile capability (such as 2-meters).

Official Observer--Official Observers (OO) help amateurs maintain their transmitting equipment and operating procedures in compliance with FCC regulations through an on-the-air monitoring and notification program. The OO may also assist the FCC in serious cases as a member of the Amateur Auxiliary to the FCC's Field Operations Bureau. Requirements include successful completion of a certification examination, and at least a Technician Class license for a minimum of four years.

Technical Specialist--The Technical Specialist serves as a technical oracle to local hams and clubs, helping them with technical questions, problems and radio frequency interference cases. You need not be an electrical engineer, just someone who's willing to help others enjoy their hobby. TSs also speak at local ham clubs and conventions.

Public Information Officer--PIOs provide local "grassroots" public relations. They give regular and frequent information about amateur activities to the public via the local media, school programs, presentations to civic groups, exhibits and demonstrations. They also promote the distribution and airing of ARRL public service announcements and other audiovisual material, and public awareness of club recruiting and training activities.

Local Government Liaison--LGLs are responsible for monitoring proposals and actions by local government bodies which may affect Amateur Radio. They work with the local PIO to alert area amateurs to problems and opportunities involving local government agencies, and coordinate local responses.

[Instructions](#)

ARRL Field Organization Call-Sign Badge Order Form

Provide all of the requested information on the form below, following the instructions on the reverse. Use a separate form for each badge order. (Photocopies of this blank form will be accepted).

NAME: _____ CALL SIGN: _____
(as it should appear on the badge -- PRINT LEGIBLY)

STREET ADDRESS: _____

CITY _____ STATE _____ ZIP _____

Daytime Phone: _____ Evening Phone: _____

E-mail address: _____

ARRL SECTION: _____
(only if you are a Section-Staff, Station, Emergency Communications or NTS Leadership appointee)

ARRL DIVISION: _____
(only if you are an Assistant Director, Advisory Committee Member, QSL Bureau Manager/Worker, Technical Advisor, Volunteer Counsel, Volunteer Consulting Engineer, Volunteer Examiner, ARRL Monitoring System appointee, Awards Manager, DXCC Field Reps, Educational Advisor, Registered Instructors who have been certified to award CEUs, or Life Member)

APPOINTMENT: _____
(see [eligibility table](#))

for correct title)
[**Life Members:** enter "Life Member" or "Charter Life Member" as applicable]

AUTHORIZED COLOR: _____
([see table](#))

CHOICE OF FASTENER: _____

AMOUNT ENCLOSED: \$ _____

Official American Radio Relay League Field Organization Call-Sign Badges: Eligibility and Background Colors

Section Staff Appointees -- **GREEN**

Assistant Section Manager, Affiliated Club Coordinator, Bulletin Manager, Official Observer Coordinator, Public Information Coordinator, Section Emergency Coordinator, Section Traffic Manager, State Government Liaison, Technical Coordinator

Station Appointees -- **BLUE**

Official Observer, Official Emergency Station, Official Relay Station, Technical Specialist, Official Bulletin Station, Public Information Officer, Local Government Liaison

Emergency Communications Appointees -- **ORANGE**

District Emergency Coordinator, Emergency Coordinator, Official Emergency Station, Assistant Emergency Coordinator

NTS Leadership Appointees -- **LIGHT GREEN**

NTS Area Staff, Net Manager

Division Appointees -- **LIGHT BLUE**

Assistant Director and Advisory Committee Appointee

Other Appointees

QSL Bureau Managers -- **RUST**

QSL Bureau Workers -- **RUST**

Technical Advisors -- **BROWN**

Volunteer Counsels -- **PURPLE**

Volunteer Consulting Engineer -- **PURPLE**

Volunteer Examiners -- **TAN**

ARRL Monitoring System -- **BURGUNDY**

Awards Manager -- **GRAY**

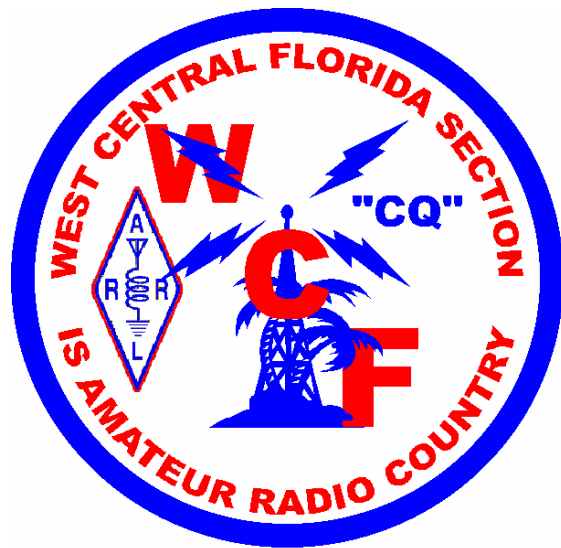
DXCC Field Representative -- **GRAY**

Educational Advisors -- **WHITE**

Registered Instructors who have been certified to award CEUs -- **WHITE**

Life Member, Charter Life Member -- **YELLOW**

NOTES



2005