STARTING THE CPS FOR THE BFDX RADIO

The next few pages were done on Windows 7 computer. A similar sequence would work on Windows XP, Windows Vista, Windows 8 and Windows 10. Some people have even been known to get it working on an Apple computer using "Parallels" and Linux using "Wine".

Connect Systems will not support CPS running on a MAC or using Linux!

On desk top of computer move mouse pointer over ICON shown below and right click a single time and you should get the following as show below the ICON.



Left click on "Run as administrator" and you should get the following:

😗 User	Account Control					
•	Do you want to allow the following program from unknown publisher to make changes to this comp					
	Program name: Publisher: File origin:	BFP-CS580.exe Unknown Hard drive on this computer				
💌 si	how details	Yes No				
		Change when these notifications appear				

Left click on the "Yes" button and the program should start and you should get the following as shown below.

Files Pogram Option	₩ BFP-CS580	
	Files Program Option	
	🗋 🗅 💕 🗔 R W	
12		1.2

Click On Files and then New from the pull down menu and you will get the following screen as shown on the next page.



Select the appropriate Model type and Frequency Range and you will get the following screen

You are now ready to use the CPS!

PULL DOWN MENUS

File Pull Down Menu

G BFP-CS580			
Files Program Option			
New Ctrl+N			
Open Ctri+O			
Save Ctrl+S	Devic	e Information	
Save as compatible file			
Save As	Frequency Range(MHz)	400-480	
EXIT	Serial Number		
	Firmware Version	0.0.0	
System 1			
TX Contacts			
iand Digital			
BX Contacts			
RX Contacts 1			
Channels			
Channel 1			
🖃 🧐 Scan			
Scan List 1			
			1.2

New

Selecting **New** displays a dialog box to creates a blank configuration file for the radio. Select the Model and Frequency Range as appropriate

Please select the model and frequency range						
Model: Frequency Range(MHz):	BF-CS580 400-480					
ок	Cancel					

Open

Selecting **Open** displays a dialog box to open a *.BFDX configuration file saved on any disk or media at the designated path. This is a highly compressed file and is very small when there are small amount of changes from the blank configuration file generated from the "New" command.



Open compatible file

Selecting **Open compatible file** displays a dialog box to open a *.BX configuration file saved on any disk or media at the designated path. This file is not compressed so it has a substantial size. At the time this manual was written, this feature was not working.

tf Open ■								
Computer I	Computer + OS (C:) + Users + Jerry + My Documents + BFDX + BFP-CS580 + 4 Search BFP-CS580 P							
Organize 🔻 New folder					III 🕶 🗌 🔞			
Oreative Cloud Fi ▲	Name	Date modified	Туре	Size				
 ☐ Libraries ☐ Documents J Music ☐ New Library ☑ Pictures ☑ Videos ☑ Homegroup 3 Chris Edwards (C 3 Dean (SOFTWAR 3 Erin (ERIN-PC) 	BF-CS580-1.bx BF-CS580-2.bx	9/12/2016 10:23 AM 9/12/2016 10:23 AM	BX File BX File	7 KB 7 KB	Select a file to preview.			
Computer Comput								
File nam	e.				✓ CompatibleFilter Files(*.bx) ✓ Open Cancel			

Save

Saves the configuration file in the same format it was before. If the format is undefined, the default is *.BFDX

Save as compatible file

Selecting **Save As** displays a dialog box to save a *.BX configuration file saved on any disk or media at the designated path with the designated name. This file is not compressed so it has a substantial size.

🕒 Save As	🗗 Save As							
Computer	• OS (C:) • Users • Jerry • My Documents	→ BFDX → BFP-CS58	30			✓ 4 Search BFP-CS580)	٩
Organize 🔻 New folder	r							0
Documents 🔺	Name	Date modified	Туре	Size				
J Music	BF-CS580-1.bx	9/12/2016 10:23 AM	BX File	7	/ KB			
📄 New Library	BF-CS580-2.bx	9/12/2016 10:23 AM	BX File	7	7 KB			
Pictures								
Videos								
Chris Edwards (C =								
& Dean (SOFTWAR								
🐍 Erin (ERIN-PC)								
🖳 Computer								
🚢 OS (C:)								
RECOVERY (Y:)								
File name: BF-CS	580-2							•
Save as type: Compa	atibleFilter Files(* by)							-
companyer companyer								
Hide Folders						Save	Cancel	

Save As

Selecting **Save As** displays a dialog box to save a *.BFDX configuration file saved on any disk or media at the designated path with the designated name. This is a highly compressed file and is very small when there is small amount of changes from the blank configuration file generated from the "New" command.

💕 Save As								 >	٢.
Computer	OS (C:) Users Jerry My Documents	s ▶ BFDX ▶ BFP-CS58	30			• i	Search BFP-CS580		٩
Organize 🔻 New folder	,						=	•	
Documents 🔺	Name	Date modified	Туре	Size					
J Music	BF-CS580-1.bx	9/12/2016 10:23 AM	BX File		7 KB				
New Library	BF-CS580-2.bx	9/12/2016 10:23 AM	BX File		7 KB				
Pictures									
videos									
🚜 Homegroup									
Chris Edwards (C ≡									
🤱 Dean (SOFTWAR									
🤱 Erin (ERIN-PC)									
Computer									
BECOVERY (Y:)									
-									
File name: BF-CS5	580-2								_
Save as type: Compa	tibleFilter Files(*.bx)			_		_		_	•
) Hide Folders							Save	Cancel]

Exit

Selecting **Exit** displays a dialog box to select whether to exit the program and save changes. Click **Yes** to exit the program with saving changes.



Program Pull Down Menu



Read Data

This reads configuration data from the radio. If the Connected is not green like show below, then turn off the radio and turn it on again. If necessary, put in the program password. When ready to read from the radio, press the "OK" button. When ready to exit from the read function, press the red "X" button

Read data from the device	×
Connected	Program Password: OK Cancel

Write Data

This writes configuration data to the radio. If the Connected is not green like show below, then turn off the radio and turn it on again. If necessary, put in the program password. When ready to write to the radio, press the "OK" button. When ready to exit from the wrie function, press the red "X" button

Connected	Program Password:
eviceID Increment	
Enable Next: 1 Reset	OK Cancel
Enable Next: 1 Reset	OK Cance

Load Data

This feature is for loading special fonts for languages other than English.

Load File						
Cor	inected					
Select Delete	File Detail					
ID File Name Rem	File Name					
	Version					
	version					
	Size					
Duran Durant Land						
Program Password: LOad						

Option Pull Down Menu



Language

Allows you to select English. We used to allow you to select English or Chinese but we had the software developers take it out so as not to confuse the users.

Font

This allows you to set the Character set to virtually any language using virtually any of the fonts available in that language. The Font default is "Microsoft Sans Serif" with the Charset "Default". Once you pick the Font and Charset, press the "Set" button to lock in what was selected.

Font Settings		<u> </u>
Font	Microsoft Sans Serif 🔹	
Charset	Default	Set
Preview:	Font Settings	

PROGRAMMING THE PARAMETERS

General Settings

Device Name

This is the product name of the radio. For this radio it should be set as BF-CS580 however it does not do anything.

Device ID

This ID is used by other radios to make private calls and for sending text messages. This is called Radio ID in other radios. For Amateur use, the ID is obtained from the DMR Marc Group free of charge. The value of this parameter can be between 1 and 16776415.

Repeater ID

This ID should match the repeater number in the repeater you are using. The value of this parameter can be between 1 and 16776215. This feature is only compatible with a BFDX repeater and has no effect if other repeaters are used.

Program Password

The program password is used to lock out unauthorized users from either reading your configuration data in the radio or writing the configuration data to the radio. There can be up to eight characters for this password.

Power-on Password

The Power-on Password is used to lock out unauthorized users from using your radio. There are exactly six numbers for this password.

Voice Encryption Type

The radio allows three possibilities for voice encryption. It can be off, static, or dynamic. The encryption key is exactly 10 characters long. Encryption only works in digital mode and it is illegal to use in the Amateur bands. The two encryption schemes are two proprietary algorithms incompatible with other radios thereby making the radio very secure.

Voice Encryption Key

The is the 10 characters encryption key must match in the radio you are using as well as the radio or radios you are trying to communicate with.

Locale

This parameter defines if the person using this radio is Chinese or English.

VOX Level

The Vox level has a value from 1 through 8 and off. If the VOX is not set for off, the larger the number the more sensitive the radio is. A value of 1 is the most sensitive.

Vox Delay(ms)

Vox Delay is the time you stop speaking until the time the radio gets out of transmit mode. This is to prevent the radio from continually turn on and off between words. The value is between 500 mS and 10 seconds in increments of 500 mS.

Tx Preamble Duration(ms)

Preamble is a string of bits added in front of a data message or control message (Text Messaging, Location Messaging, Registration, Radio Check, Private Call, etc...) before transmission. This preamble prolongs the message in order to reduce the chances of the message being missed by the receiving radio.

Talkaround Group Call Hang Time(ms)

Sets the duration during which a radio will talk back to a received call or continue a transmitted Talkaround Group Call using the previously received or previously transmitted digital group ID. After expiration of the Talkaround Group Call hang timer, the radio will transmit using the TX Contact Name (digital group) specified for this channel in CPS.

Talkaround Private Call Hang Time(ms)

Sets the duration the radio keeps the Talkaround Private Call setup after the user releases the Push-to-Talk (PTT) button. This is to avoid setting up the call again each time the user presses the PTT to transmit. During this time, other radios can still transmit since the channel is essentially idle. After the hang timer expires, the radio transmits using the TX Contact Name specified for this channel in CPS

Battery Saver

The purpose of the battery saver feature is to minimize battery use during idle time. The disadvantage of this feature is the radio might miss the beginning of a call if it stays off during the time the call first starts. The possible values for this parameter is Off, 1:1, 1:2, 1:3, 1:4. The larger the second number, the longer the battery will last.

Disable All LEDs

The feature allows you to save a little power and thereby increasing the battery life.

Frequency Visible

This feature disables the display of the frequency from the LCD. This is important if you do not want people near you to know what frequency you are using.

Reject Strange Call

Direct Mode

This parameter allows you to communicate directly with another radio without using a repeater on a separate receive and transmit frequency.

Menu Button Delete

Prevents the user from accessing the menu on the radio.

Tone Alerts

Disable All

Disables all alerts in the system. Useful if you do not want people around you to know you have a radio.

Voice Indication

The radio will verbally announce the channel number when you change the channel. This will allow you to enable or disable that feature.

Channel Free Indication

In digital mode, the radio will generate a beep when the radio is free to transmit.

Talk Permit Indication

This can take on a value of "none", "Analog", "Digital" and "Analog & Digital". This feature allows the radio to beep when the PTT is pressed and the channel is available for transmission.

Rx Low Battery Interval(sec)

The radio will beep every so often if the battery is low. How often the radio beeps is determined by this parameter and can be between 0 and 635 in five second increments. A value of zero disables the beep.

Enhanced Scanning

Min Frequency (MHz)

This is the lowest frequency the radio starts scanning. The lowest frequency available in the radio is 400 MHz.

Max Frequency (MHz)

This is the highest frequency the radio scans to. The highest frequency available in the radio is 480 MHz.

Rx to Tx Offset (MHz)

When you monitor a channel, you normally put in the Rx Frequency. This offset allows you to generate the Tx Frequency if you later want to convert the monitoring to a two way radio call.

Channel Spacing (KHz)

This is the increment from channel to channel. Most channels are on 12.5 KHz boundaries when you start on 1 MHz boundaries. That means the starting frequency is 400.000, 401.000, 402.000 and so on. The choice for channel spacing is:

2.5 KHz 5.0 KHz 6.25 KHz 10.0 KHz 12.5 KHz 25.0 KHz 50.0 KHZ 100.0 KHz

BUTTON SETTINGS PAGE

Button Settings

Long Press Duration(ms)

This parameter is used to determine the minimum time the button has to be pressed before it is designated as a Long Press.

Button 1	- 2,	Short Press ar	nd Long Press
----------	------	----------------	---------------

Unassigned	This key is not assigned with any function
One Touch Call 1~6	Allow user to initiate digital group call, digital private call,
	call alert or send preset message via the one touch call
	function.
Manual Dial for Private	You can manually input the private call number for calling.
Emergency On	Allow user to make an emergency call.
Monitor	Enables and disables the monitor function
Backlight Auto On/Off	This function allows the user to have the backlight on
	continuously or only on for five seconds after a key has
	been pressed
Keypad Lock	Allows user to enable the keypad lock feature. If the
	keypad lock is enabled user can only operate the PTT
	key and side button. Press MENU and # key to unlock.
Seen On/Off	Allow wear to another or dischle the even function
Scan On/Off	Allow user to enable or disable the scan function.
All Alert Tones on/off	Allow user to enable or disable all alert tones
Battery Indicator	Indicates battery charge left
Short Message	Allows you to enter the message function menu
Zone Toggle	Allows you to enter the zone selection function
Contacts	Allow you to enter the Contacts menu
Radio Enable	Sends an enable command to a private call contact.
Radio Disable	Sends a disable command to a private call contact.
Radio Check	Sends a device check command to a private call contact
Remote Monitor	Allows you to remotely monitor another radio

High/Low Power	Allows user to switch between high and low power		
Repeater/Talkaround	Allows radio to communicate through a repeater or speak		
	directly to another radio without a repeater.		
Vox On/Off	Enables and disables the VOX function		
Nuisance Delete	While scanning, allows you to remove a channel from the		
	scan list.		
Permanent Monitor	Enables and disables the monitor function. Only works with		
	a long key press		
Enhanced Scanning	Pressing this button will allow you to go to the enhanced		
	scanning mode defined by the Enhanced Scanning		
	parameters in the General Settings Page.		
Enhanced Monitoring	Pressing this button will allow you to go to the enhanced		
	monitoring mode to allow you to receive all conversations		
	on that channel.		
Enhanced Parameters	eters Pressing the Enhanced Parameter button will allow you to		
	go directly to a screen that will allow you to set all		
	parameters necessary for a digital or analog call.		

One Touch Calling

Call Member

This is the digital contact that must be entered. All Call members cannot be used in this field.

Call Type

If the Call Member is a group call, then the choices are:

Short Message Group Call

If the Call Member is a private call, then the choices are:

Short Message Private Call Call Alert

Short Message

This is used if the Call Type is set for a Short Message. The actual Short Message is put in the next screen called "Short Message". This field only selects which preprogrammed short message to use.

6 BFP-CS580					
Files Program Option					
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₩ BF-CS580-3					
 BF-CS580 General Settings Button Settings Short Message Menu Settings Signaling Systems Digital Alarms Digital Alarms Digital All Call Private Call 1 RX Contacts 1 Channels Zone 1 Scan List 1 		Short Message			
		Message			
	1	Short Message Test 1			
	2	Short Message Test 2			
	▶ 3	l			
	4				
	5				
	6				
	7				
	8				
	9				
	10				
			1.2		

SHORT MESSAGE

This screen allows you to enter short messages. Up to 10 different short messages may be entered.

MENU SETTINGS PAGE

Menu Hang Time

This is how long the menu will stay up without pressing any keys before it goes back to the idle mode and displays the channel information.

Message

In the radio menu functions, under contacts there is the ability to send SMS messages. Checking this box allows you to send either a new or a preset SMS message while if the box is not checked then no SMS message can be sent.

Contacts

Call Alert

In the radio menu functions, under contacts, there is the ability to use the call alert feature. Checking this box allows you to use the call alert feature while if the box is not checked the call alert feature cannot be used

Edit

In the radio menu functions, under contacts, there is the ability to Edit SMS. Checking this box allows you to edit SMS messages while if the box is not checked then no SMS messages can be edited or deleted

Manual Dial

In the radio menu functions, under contacts, there is the ability to manually dial. Checking this box allows you to manually dial while if the box is not checked then you cannot manual dial. Manual dialing is when you use the front panel keypad of the radio to enter a contact number.

Device Disable

In the radio menu functions, under contacts, there is the ability disable a remote radio. Checking this box allows you to disable a remote radio while if the box is not checked then you cannot disable a remote radio.

Device Enable

In the radio menu functions, under contacts, there is the ability enable a remote radio that has been already disabled. Checking this box allows you to enable a remote radio while if the box is not checked then you cannot enable a remote radio.

Remote Monitor

In the radio menu functions, under contacts, there is the ability monitor a remote radio that has been turned on. Checking this box allows you to monitor a remote radio while if the box is not checked then you cannot monitor a remote radio.

Scan

Scan on/off

If this feature is enabled, you can turn on or off the scanning from the channel you are currently on. If it is off scanning will start only if the auto scan feature is set or a side button is set for scanning.

Edit List

If this feature is enabled, then you can either add or delete channels from this scan list.

Call Log

Missed

If this feature is enabled, user can view missed calls.

Answered

If this feature is enabled, user can view answered calls.

Outgoing

If this feature is enabled, user can view outgoing calls.

Utilities

Locale

If enabled, the user can set this radio for the English Language or the Chinese Language.

Talkaround

If enabled, the user can set the channel for Talk Around.

Tone/Alerts

If enabled, you can set all the tones to be enabled or disabled, you can set the call alert tone, you can set the message tone, and you can turn the keypad tone on or off.

Power

If enabled, the user can set the power level to high or low

Backlight

If enabled, user can set the backlight to on or automatic.

Intro Screen

If enabled, user can set the Introduction screen on or off when the power to the radio is first turned on.

Power-on Password

If this feature is enabled, and the power on password is set to something other than all blanks, then the user must enter a password to turn on the radio. If this feature is not enabled, then the user does not have to enter a password to turn on the radio.

Keypad Lock

If enabled, user can set this parameter on or off.

LED Indicator

If enabled, user can set this parameter on or off. When off, the LED on the display and the LED on top of the radio is no longer used. If the LED on the display is never on, then it is almost impossible to use the radio.

Squelch

If enabled, user can set the squelch level. This parameter only works if the channel selector knob is at this time set to an Analog channel.

Vox Level

When enabled, allows the user to set the VOX Level and the VOX Delay.

DIGITAL ALARMS PAGE

Adding another Digital Alarm system

System

Alarm Type Alarm Type can be set as Disabled, Regular, Silent, or Silent with Voice.

Mode

The choice for this parameter is Emergency Alarm, Alarm with Call, and Alarm with Voice.

Revert Channel

This is the channel the radio will transmit on when there is an alarm.

Impolite Retries

Number of times the radio will transmit the alarm event even when the channel is busy.

Polite Retries

Number of times the radio will transmit the alarm event when the channel is not busy.

Hot Mic Duration(sec)

This parameter is active only when the Mode is set to Alarm with Voice. This is the amount of time the radio will transmit the person's voice even though the PTT switch might not be pressed.

TX CONTACTS PAGE

Adding a Tx Contact

Under Contacts, highlight the word "Digital" with the left mouse key. Right Click the mouse key and you should get a choice of "ADD" or "Sort". Move mouse point to "ADD" and you should get a choice of Group Call, Private Call, or All Call. Left click on one of those three choice and you will get a new Digital Contact with the type specified.

Deleting a Tx Contact

Highlight the Tx Contact you want to delete. Press the right mouse button and you should get choice of "Rename" or "Delete". Press the Delete and the Tx Contact will be deleted.

Туре

The Type could be "Private Call, "Group Call", or "All Call". This is formed at the time you added the Tx Contact as described above.

Call ID

This is the value you put in for the Group Call or Private Call. All Call is predefined and there is no need to add a Call ID. The value for this field is between 1 and 16776415.

Alias

Highlight the Tx Contact you just created. It should have a name such as Call 1, Call 2, etc. Press the right mouse button and you should get choice of "Rename" or "Delete". Press the Rename and insert the Alias for the current name.

RX CONTACTS PAGE

Adding Rx Contact Group

To add another RX Group, highlight the RX Group Lists and then right click on the mouse and select Add. Then highlight the RX Group just generated and right click the mouse and select Rename and change the name of the RX Group List to something meaningful.

Configuration of Rx Group

To configure the Rx Group, highlight the items in the Available Group and then press Add button to move it over to the Member group list.

CHANNELS PAGE

Adding Zones

Highlight Channels, and then right click the mouse and you will get a choice of Add or Sort. Highlight the Zone you just added and then right click the mouse and you will get a choice to rename. Press the rename key and you can now rename the zone.

Adding Channels

Highlight the zone you want to add a channel to. Right click the mouse and select Add. The new channel will be added. The highlight the Channel you just created and right click the mouse. Select Rename and now you can rename the channel.

Delete Channels

Highlight the channel you want to delete and then right click the mouse. Select Delete and the channel will be deleted. If there is one channel in the system that channel cannot be deleted.

Rename Channels

Highlight the channel you want to rename and then right click the mouse. Select Rename and now you can rename the channel.

Channel Parameters

Digital Channels

Channel Type

Selects either Digital or Analog Channels. There is also a hybrid selection called Analog compatible Digital and Digital compatible Analog. We will do further testing on those hybrid channels before we release information about those modes.

Scan List

This ties the Scan list to the Channel. Multiple Channels can share a single scan list.

Auto Scan

If this box is checked, then when this channel is accessed, scanning starts automatically. If this box is unchecked, then program one of the buttons to start the scan.

Color Code

This sets the color code for the digital channel and can have a value of 0 to 15.

Repeater Slot

This sets the repeater slot number for this channel and can have a value of 1 or 2.

Allow Talkaround

If the Rx Frequency and the Tx Frequency is the same then the talkaround feature is implied. If the two frequencies are different, then talkaround is allowed and one of the side buttons can be used to activate the talkaround feature. In talkaround, the Rx and Tx frequencies are reversed so when you speak to another radio programmed the same way, the Tx from one radio will go to the Rx of the other radio. This is used to speak direct to another radio and bypass the repeater.

Receive (Rx) Only

If the Rx Only feature is checked, then the transmitter for this channel is disabled.

Rx Frequency(MHz)

This is the frequency the radio will be receiving on.

Tx Frequency(MHz)

This is the frequency the radio will be transmitting on.

Offset

This parameter along with the Mapping button will be added to the Rx Frequency to generate the Tx Frequency.

Rx Group List

These are the Group contacts that will be allowed through. If it is a private call, then the Rx contact is the Device ID found on the General Settings page. Unless this channel is only going to be used for private calls, then something must be put in Rx Group List

Emergency Alarm Indication How is this used

Emergency Alarm Ack How is this used

Emergency Call Indication How is this used

Tx Contact

This specifies who you want to contact. This is set by a pull down menu from the contact pull down menu which specifies both the contact number and the type. The type could be private call, group call, or all call.

Emergency System

This specifies the alarm system that should be used for this channel.

Power Level

This allows you to transmit at full power which is 4 watts for the UHF version and 5 watts for the VHF version or transmit at low [power which is 1 watt for both versions.

TOT(sec)

This is the Time Out Timer which specifies how long the radio has to be in transmit mode before it turns off automatically.

TOT Key Delay(sec)

This parameter is used to determine how long the PTT key is released before the TOT timer is reset.

Admit Critera

Admit Criteria determines when the radio will transmit. If it is set for "Color Code Free" then it will not transmit if the digital repeater is active. If it is set for "Channel Free" then it will not transmit if either an Analog Repeater or Digital Repeater is active. If it is set for "Always" then it will unconditionally transmit and if you are stronger than the other signals you will get in.

Private Call Ack

If set, does handshaking on private calls to indicate call has been received.

Analog Channels

Channel Type

Selects either Digital or Analog Channels. There is also a hybrid selection called Analog compatible Digital and Digital compatible Analog. We will do further testing on those hybrid channels before we release information about those modes.

Bandwidth

Selects either 12.5 KHz channels or 25.0 KHz channels. If for Amateur use, either bandwidth is acceptable. If for commercial use, then 12.5 KHz (narrow band) must be used.

Scan List

This ties the Scan list to the Channel. Multiple Channels can share a single scan list.

Auto Scan

If this box is checked, then when this channel is accessed, scanning starts automatically. If this box is unchecked, then program one of the buttons to start the scan.

Allow Talkaround

If the Rx Frequency and the Tx Frequency is the same then the talkaround feature is implied. If the two frequencies are different, then talkaround is allowed and one of the side buttons can be used to activate the talkaround feature. In talkaround, the Rx and Tx frequencies are reversed so when you speak to another radio programmed the same way, the Tx from one radio will go to the Rx of the other radio. This is used to speak direct to another radio and bypass the repeater.

Receive (Rx) Only

If the Rx Only feature is checked, then the transmitter for this channel is disabled.

Rx Frequency(MHz)

This is the frequency the radio will be receiving on.

Tx Frequency(MHz)

This is the frequency the radio will be transmitting on.

Offset

This parameter along with the Mapping button will be added to the Rx Frequency to generate the Tx Frequency.

Decode

This is the CTCSS tone or DCS code that much match the transmitter to allow the user to hear the voice from the transmitter. If set to none then the user will hear all signals.

Reverse Burst

When a transmitter with CTCSS is turned off, a CTCSS signal is generated with a phase delay. This phase delay can be 120 degrees, 180 degrees, or 240 degrees. For receiving Motorola radios, 120 Degrees is usually selected. For other radios, use standard

Encode

This is the CTCSS tone or DCS code that is being transmitted.

Reverse Burst

When a transmitter with CTCSS is turned off, a CTCSS signal is generated with a phase delay. This phase delay can be 120 degrees, 180 degrees, or 240 degrees. For transmitting to Motorola radios, 120 Degrees is usually selected. For other radios, use standard

Power Level

This allows you to transmit at full power which is 4 watts for the UHF version and 5 watts for the VHF version or transmit at low [power which is 1 watt for both versions.

TOT(sec)

This is the Time Out Timer which specifies how long the radio has to be in transmit mode before it turns off automatically.

TOT Key Delay(sec)

This parameter is used to determine how long the PTT key is released before the TOT timer is reset.

BCL

Busy Channel Lockout prevents the transmitter from turning on if there is already a signal on that channel. If it is set for carrier, any signal will prevent the transmitter from turning on. If it is set for CTCSS/DCS then only signals with matching encoding will prevent the transmitter from turning on. If set of OFF, then the transmitter will turn on unconditionally if the PTT is pressed.

STE

If squelch tail eliminate is checked, then the user will not hear the squelch tail generated when the transmitter is turned off from the radio you are listening to.

SCANNING PAGE

Adding a Scan List

To add a new scan list, highlight Scan and then right click the mouse and then press the Add button. Then highlight the new scan list you just created and then right click the mouse and press rename. Now you can rename the Zone list to something meaningful.

Configuration of scan list

Move the Available Channels to the Member Channels to form the scan list.

Talkback

If the talkback check box is checked, then pressing the PTT will allow the user to talkback based on the Tx Designated channel criteria below.

Tx Designated Channel

The choice for this is "Selected", "Last Active Channel", or any of the active channels in the system. If "Selected" is chosen, then the transmitting channel is based on the channel selector knob. If "Last Active Channel" is chosen, then the last channel that was transmitted on will be selected. You can also select any of the active channels in the system.