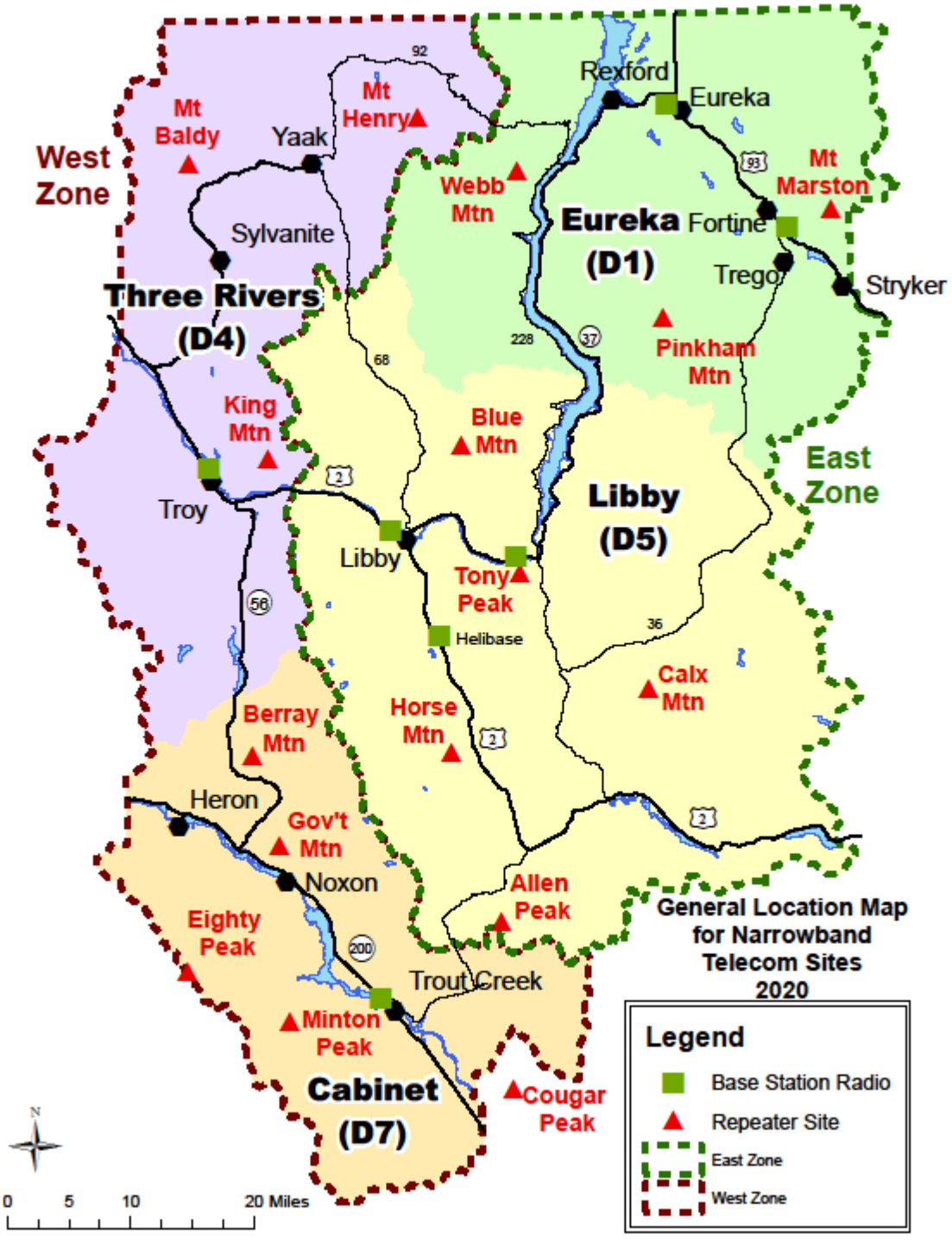
Kootenai National Forest 2020 Radio User Guide



Introduction

This guide is designed to assist radio users in operating the Kootenai National Forest's (KNF) radio system. The system utilizes Kenwood and Bendix/King Mobile radios, and Bendix/King and KNG hand-held radios that have been programmed to the KNF's frequencies. Users will be required to attend annual training to obtain an understanding of how the KNF's radio system works and how to properly use a radio to communicate. Radio users should read this guide and use it in the field as a reference.

Forest Radio System:

Within the KNF there are three radio frequency zones comprised of a series of base stations and mountaintop repeaters. The radio zones are Ksanka, Libby, and West. Radio base stations are located at all District Offices, the Supervisor's Office, Kootenai Interagency Dispatch Center (KDC), Libby Helibase, and on Blue Mountain. They are used for direct communications to the field or to access mountaintop repeaters for additional coverage.

Kootenai Interagency Dispatch Center is broken into two dispatch zones. They are the East Zone and the West Zone.

The East Zone is comprised of two districts, (Libby Ranger District and Ksanka Ranger District) and the Montana DNRC Libby Unit. The East Zone is broken into two separate radio networks. The Libby network operates under the 172.2500 MHz frequency on all repeaters. The Ksanka network operates under a 171.2625 MHz frequency.

The West Zone is comprised of two districts; Three Rivers Ranger District and Cabinet Ranger District. The West Zone network operates under the 171.3875 MHz frequency on all repeaters.

Base station locations are as follows:

Base Stations	**Base Station Call Signs**
• Blue Mountain for the Kootenai Interagency Dispatch Center (KDC)	Kootenai Dispatch
• Libby Helibase located at Libby Airport	Libby Helibase
• Eureka Ranger Station	Rexford
• Canoe Gulch Ranger Station	Canoe Gulch / Libby District
• Libby Fire Cache	Libby Fire Cache
• Troy Ranger Station	Three Rivers / D4
• Cabinet Ranger Station	Cabinet

Base stations, mobile and handheld radios are programmed with the same channel plan. (see KNF Channel Plan). All radios (handhelds, mobiles, desk remotes and consoles) have an alpha/numeric display which shows the channel name.

Repeaters

Each of the following mountaintops have a repeater. The name next to the repeater represents which dispatch zone that repeater is associated with.

- Webb Mountain (East)
- Pinkham Mountain (East)
- Mount Marston (East)
- King Mountain (West)
- Mount Baldy (West)
- Mount Henry (West)
- Blue Mountain (East/West)
- Calx Mountain (East/West)
- Tony Peak (East)
- Horse Mountain (East)
- Allen Peak (East/West)
- Cougar Peak (West)
- Berray Mountain (West)
- Government Mountain (West)
- 80 Peak (West)
- Minton Peak (West)

It is important to be aware of repeater locations so that the closest and most accessible site can be selected, even though the repeater may not be located on your district. Radios have limited range so their signals can easily be blocked by mountains. Therefore, a repeater may allow you to communicate in places where you would not be able to without using it.

Work and Tac Channels

Each district will have one work channel and at least two tac channels. Each channel will still have a unique tone for each district. See the KNF Channel Plan to reference the RX/TX frequency and Tone for each of these channels. These channels are designed for day to day field and fire work.

Radio Traffic Priorities:

At all times, the following priorities are in effect:

1. **LIFE AND DEATH**
2. **AIRCRAFT**
3. **NEW FIRE REPORTS**
4. **ON-GOING FIRES**
5. **WEATHER REPORTS**
6. **ADMINISTRATIVE**

Radio Protocol:

- The 171.3875 MHz frequency is used by the forest's West Zone as a Command frequency. All West Zone administrative traffic will use this frequency. In general, Troy and Cabinet Districts (administrative and fire) should be using these channels.

- The 171.2625 MHz frequency is utilized on the Ksanka radio network. It is used by the northern half of the forest's East Zone as a Command frequency. In general, all Ksanka District traffic (adminstrative and fire) should be using these channels.

- The 172.2500 MHz frequency is utilized on the Libby radio network. It is used on the southern half of the forest's East Zone as a Command frequency. In general, Libby District traffic (administrative and fire) should be using these channels.

- The 168.7750 frequency is the "Work" channel and is separated by District (ex. D7 WORK). All Work channels have a tone that is specific to each district.

- The 171.4750 frequency is the "Tac 1" channel and is separated by District (ex. D7 TAC 1). All Tac channels have a tone that is specific to each district.

- The 167.1125 frequency is the secondary "Tac 2" channel. and is separated by District (ex. D4 TAC 2). All secondary Tac channels have a tone that is specific to each district. **NOTE: D7 has been given an additional secondary tac frequency due to interference. It is 170.5000**

- The "Red" channel is a statewide fire mutual aid frequency for communication between federal, state, and local agencies.

- Air to ground (AIR/GND) is the frequency used for communication between ground and aircraft resources, each zone will have a unique AIR/GND frequency assigned.

- Below is a list of the 911 dispatch centers and the Forest Service offices that correlate with them.

911 Call Sign	**Base Station Call Names**
Sheriff Dispatch	Canoe Gulch / Libby Fire Cache
Eureka Dispatch	Rexford (Ksanka)
Troy Dispatch	Three Rivers / D4
Sanders County	Cabinet

Administrative Traffic:

All Districts are required to handle their own administrative traffic using their district check in/check out procedures. Kootenai Dispatch can be used as a backup when someone is unable to reach their home unit. In the case of an emergency, please reference the section below labeled Radio Emergency Use Procedures.

Due to regulations and licensing restrictions, only the Forest Supervisor has legal authority to program radios. However, this function has been delegated to the ISO department (Todd Orr/Eric Proctor/Neal Maben). In addition, one employee at each district has been designated to program radios and serve as a contact for radio questions, trouble shooting, and coordination, as follows:

- D1/3 Cody White (RJ McDole – backup)
- D4 Tyler Bothman (JR Rebo/Beau Macy – backup)
- D5 Brent Cooper (Grant Rider – backup)
- D7 Brian Krick (Adam Carr – backup)
- SO Aaron Karuzas

Note: All frequencies and tones are programmed into your radio. A user should not need to manually program them. If you have any radio concerns you should contact the appropriate person at your location or the CIO contact at the SO, which is **Todd Orr** at (406) 283-7702.

Flight Following:

Radio communication on KNF frequencies for flight following between aircraft and Kootenai Dispatch can be done on either Kootenai East or West. In general though, for sustained operations, whichever zone the aircraft is flying over will determine the frequency being used to flight follow.

Flight following with DNRC aircraft will usually be done on the State frequency (151.2650).

After Hours Radio Protocol:

Each District located in Lincoln County has an agreement with the local Sheriff's Office to monitor our radio frequency. The Libby Sheriff's office monitors Blue Libby, Troy Sheriff's offcie monitors King, and Eureka Dispatch monitors Pinkham. If individuals are going to be out after-hours, the Kootenai Dispatch will notify the Sheriff's Office. The individuals would then be responsible to check in with the Sheriff's Office with any change in plans, or, when they have returned to the District Office. If the Sheriff"s Office does not receive a check-in, they would contact the Kootenai Disptach Duty phone.

After Action Reviews:

Communications should be a major component of all AAR's. Any and all problems with communications should be discussed and documented during every AAR.

NOTE: Most fire crews will be utilizing digital Bendix/King handheld radios. They will be programmed with the same Channel plans and used in the analog mode to transmit and mixed mode to receive. Refer to the user manual for details regarding components and functions.

Radio Emergency Use Procedures:

- **Turn the radio on and turn up the volume.**
- **Check to make sure you are using the proper group.** To select a group, press the # key (this will show the current group) then press the number of the desired group and wait for 5 seconds, or press enter.
- **Select a channel**. Refer to a map and the Kootenai Channel Plan to determine what channel to use. Use the Channel Selector Knob, on the Bendix Kings, or the orange group select button on the top of the KNG radios, to select the channel. There are 16 channels on your radio.
- **Transmit your message.** If you are in an emergency situation, begin your transmission by stating that you have an emergency. For example, "Kootenai Dispatch, this is Jane Smith, I have an emergency." Broadcasting that you have an emergency lets other listeners know that you have priority and that everyone else should stay off the radio until you are done. Press and hold the Push-to-talk button. Hold the button in throughout the entire message. If your message is too long, the transmit signal will time out and cut you off. Therefore, if you have a long message, you may have to pause and release the PTT button and then press in again to continue.

  NOTE: Even if you do not receive a response, transmit your entire message. Someone may be able to hear you, but you may not hear them.

✓ **Medical Emergency:** If you are dealing with an injured person and are requesting medical help, do not give the name of the injured person over the radio. Reference the KNF Medical Evacuation Plan's medical incident size up card for information to be relayed over the radio. If you don't have one, when you contact Kootenai Dispatch, they will prompt you for the information needed.

Radio Etiquette

- **Use plain text at all times.** Plain text means speak in complete English. Do not use codes or abbreviations.
- **Speak slowly and hold the radio an inch or so away from your lips.** If you hold the microphone too close to your lips, your transmission might sound fuzzy and garbled.
- Do not begin a transmission until you are sure there are no other conversations taking place.
- **To initiate a call, state the name of the person or location you are calling followed by your name.** For example, "Kootenai Dispatch; Jane Smith" or "Kootenai Dispatch, this is Jane Smith."
- **Use the channel label instead of the channel number** to tell the other party what frequency/repeater you are on. For example, "Kootenai Dispatch, this is Jane Smith on 80 Peak" or "Kootenai Dispatch, this is Jane Smith on Blue Libby". Make sure that the answering party is completely finished talking before you respond. Wait until you hear the squelch tail (the hiss) at the end of the transmission.
- When finished with communications be sure to sign off with your name, or location and "clear". For example, "Smith clear" or "Helibase clear".

Trouble Shooting for Radios:

1) Check the battery: Hold in the PTT Button and look at the Low Battery Indicator on top of your radio. If the light blinks on and off, or blinks just once and goes out, your battery is probably bad. The light should stay on the entire time you have the PTT Button pressed.

2) Check your position: Make sure you are standing still and holding the radio up right (perpendicular to the ground). This is important because moving the radio around or holding it at different angles will affect the antennae's power and ability to transmit or receive a message.

3) Check the repeater: Even though it looks like the repeater you have chosen is the closest, you may not have a direct line of site to the repeater. For instance, there could be a high mountain peak between you and the repeater. You may need to select a different repeater or move to a higher location.

4) Check the group and channel.

5) Is your radio scanning? If so, traffic on another channels that are being scanned may be blocking the transmission of the person you want to receive.

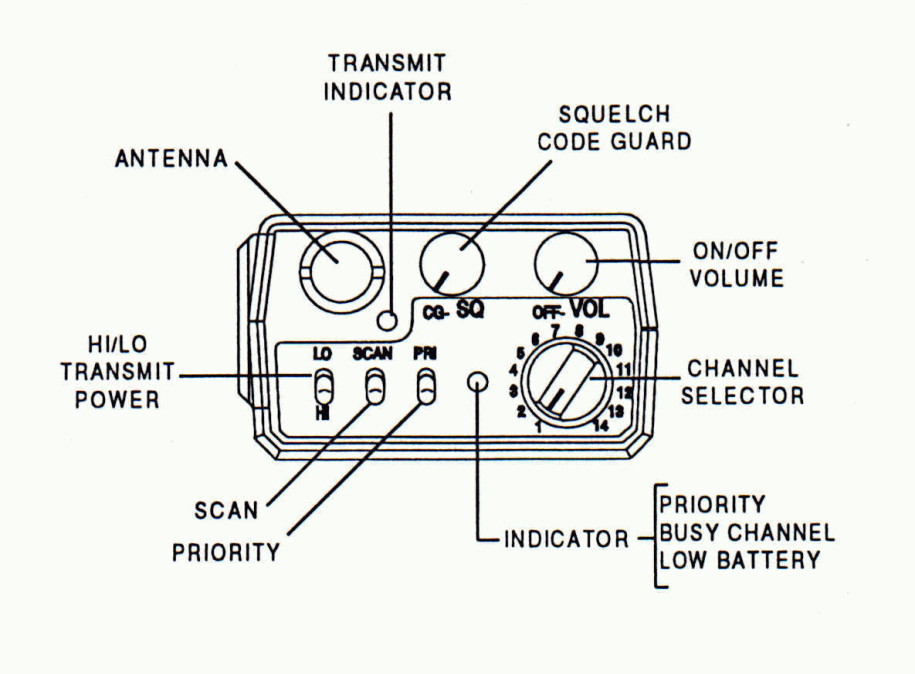
6) If it appears that your radio will not turn on, it could be because it is on a channel that is unprogrammed. It has been discovered that King radios will not turn on if the channel selector is set to an unprogrammed channel. Turn off the radio, change the channel and try again.

7) Check the Code Guard/Squelch setting if using a handheld radio. Make sure it is turned counter-clockwise all the way until it clicks. This activates the receive code guard funcion of your radio; channels that have receive tones will only receive transmissions on that frequency that contain the appropiate tone.

Components and functions of a Bendix/King Handheld Radio:

On-Off/Volume: Turn the On-Off/Volume Knob clockwise to power the radio. Continue turning the knob clockwise to increase the volume.

Squelch/CG: Turn the squelch knob counter-clockwise until it stops. This is the CG (Code Guard) position, and is where this knob should be set for your radio to functions as described in this guide.



Channel Selector: Turn the Channel Selector Knob to the desired channel *(see the attached Kootenai National Forest Channel Plan)*.

Groups: Multiple groups is a feature of the radio that increases the number of programmable channels. There are 15 groups available and a maximum of 16 channels in each group which allows for a total of 240 channels.
To select a group perform the following steps:
1) Press the pound (#) key on the key board to display the current group on the LCD display.
2) Press the appropriate number for the desired group.
3) Press **ENT** for your selection to be accepted.

Groups 12-15 should be used when programming non-Kootenai and temporary frequencies. For instance, if on assignment in another region, a communications technician should program any necessary frequencies into groups 12-15.

It is important to check that the proper group is selected. **Press the pound (#) key at any time to view the current group selected.**

Channel Busy/Low Battery Indicator: This indicator will illuminate red when transmitting a message over the radio and when receiving a signal on the priority channel. The light should illuminate solid red when transmitting. If the light blinks once or twice and then goes out or if the light flickers, it means the battery could be low.

Switch A - Hi/Lo Transmit Power: This switch allows you to either use full transmit power (HI) or reduced transmit power (LO). Using LO power conserves energy and helps preserve the battery. LO power should be used when monitoring the radio in town or in close proximity of a base station. **The radio is in HI power when the switch is pushed towards you and in LO power when the switch is pushed away from you.**

Switch B - Scan: Bendix/King radios allow users to monitor frequencies from a preset scan list, including the currently selected channel. When a signal is detected, scanning stops and the message is received. The received channel label is shown on the LCD. Once the signal ends, the radio continues to monitor the channel for a preset amount of time before it resumes scanning. If you wish to respond to a message received on a scanned channel, you will have to change the currently selected channel. All transmissions in scan mode will occur on the channel selected (see Channel Selector Knob). **The radio is in scan mode when the switch is pushed away from you. To turn off the scan function, push the switch towards you.**

To determine what channels are being scanned, turn the scan switch off and turn the Channel Selector Knob to each channel. If the channel is on the scan list, "SCN" will appear on the top portion of the LCD. To add a channel to the scan list, select the channel with the Channel Selector Knob and then press ENT. To remove a channel from the scan list, press the CLR key. After a short beep, "SCN" should disappear. **SCN solid indicates that channel is included in the scan list; SCN flashing indicates that the scanning function has been activated and all channels in the scan list are being scanned.** When adding or deleting a channel from the scan list, both the Scan and Priority Switches should be turned off (pushed down toward the user). Only channels in the current group can be scanned.

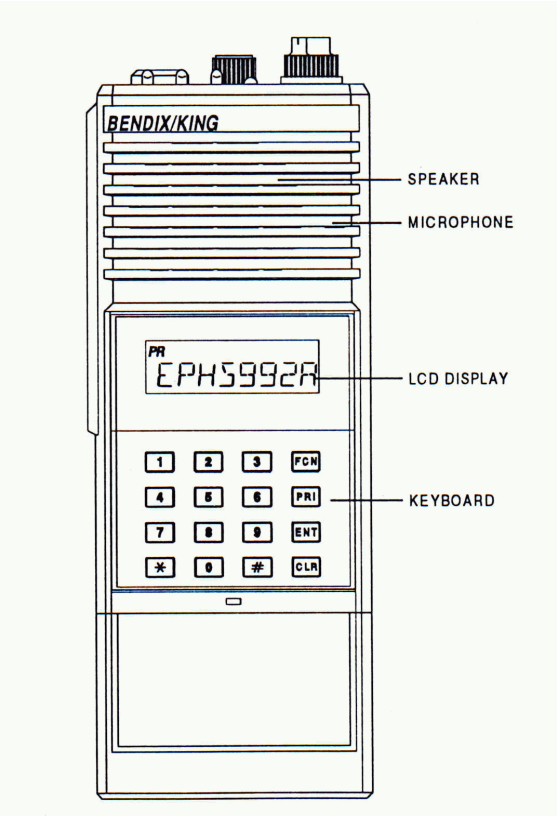
Switch C - Priority: Priority scan allows a radio to monitor traffic on a priority channel. This function can operate with or without the scan function. The radio checks the priority channel every few seconds. When in priority mode, the transmissions on the priority channel will override all other transmissions, even though the priority channel may not be the currently selected channel. **PR in the upper left corner of the display screen indicates that channel is set as the priority channel. SCN flashing indicates that the priority function has been activated (see Switch B above also) and the priority channel is being scanned and will override transmissions on other frequencies.** When a transmission on the priority channel is received, the channel label will appear on the display screen along with “RX” above it.

To set a priority channel, perform the following steps:

1. Turn off the Priority and Scan Switches (they should be pushed down towards you).
2. Move the Channel Selector Knob to the channel you want to set as the priority.
3. Press the PRI key on the key board.
4. Turn on the Priority Switch to activate priority mode.

Antenna: The size of the antenna affects the range capabilities of radio signals. For instance, longer antennas can transmit and receive signals from repeaters and base stations that are further away than radios with shorter antennas. To ensure that clear signals are being sent and received, stand still while communicating and hold the radio straight up and down so that it is perpendicular with the ground. If you are talking to aircraft, you should hold the radio in a horizontal position. It is important to take good care of antennas, as bent or broken antennas will not transmit or receive signals.

Push-To-Talk Button (PTT): Pressing this button activates the transmit mode (talk mode). Press in and hold this button throughout the entire transmission. For a complete message to be heard, press the button and wait for a second or two before beginning the message and continue to hold in the button for a few seconds after completing the message. This allows time for the signal to access or "key up" the repeaters if necessary.



Speaker: Radio signals are picked up and transmitted over the speaker. The On-Off/Vol switch allows users to adjust the volume of their radio.

LCD Display: The LCD display shows a variety of information. The upper right hand corner displays codes to let users know if the radio is set in priority mode (PR), and/or scan mode (SCAN). The main part of the display will show which channel is selected for transmitting and receiving messages. In addition, by pushing the pound (#) key, the current group selected will be displayed in the main part of the box.

Key Board: The key board provides a mechanism that allows users to change groups and set scan lists. To remove the cover, remove the battery pack and then slide the cover down. Remember to replace the battery pack after removing the cover.

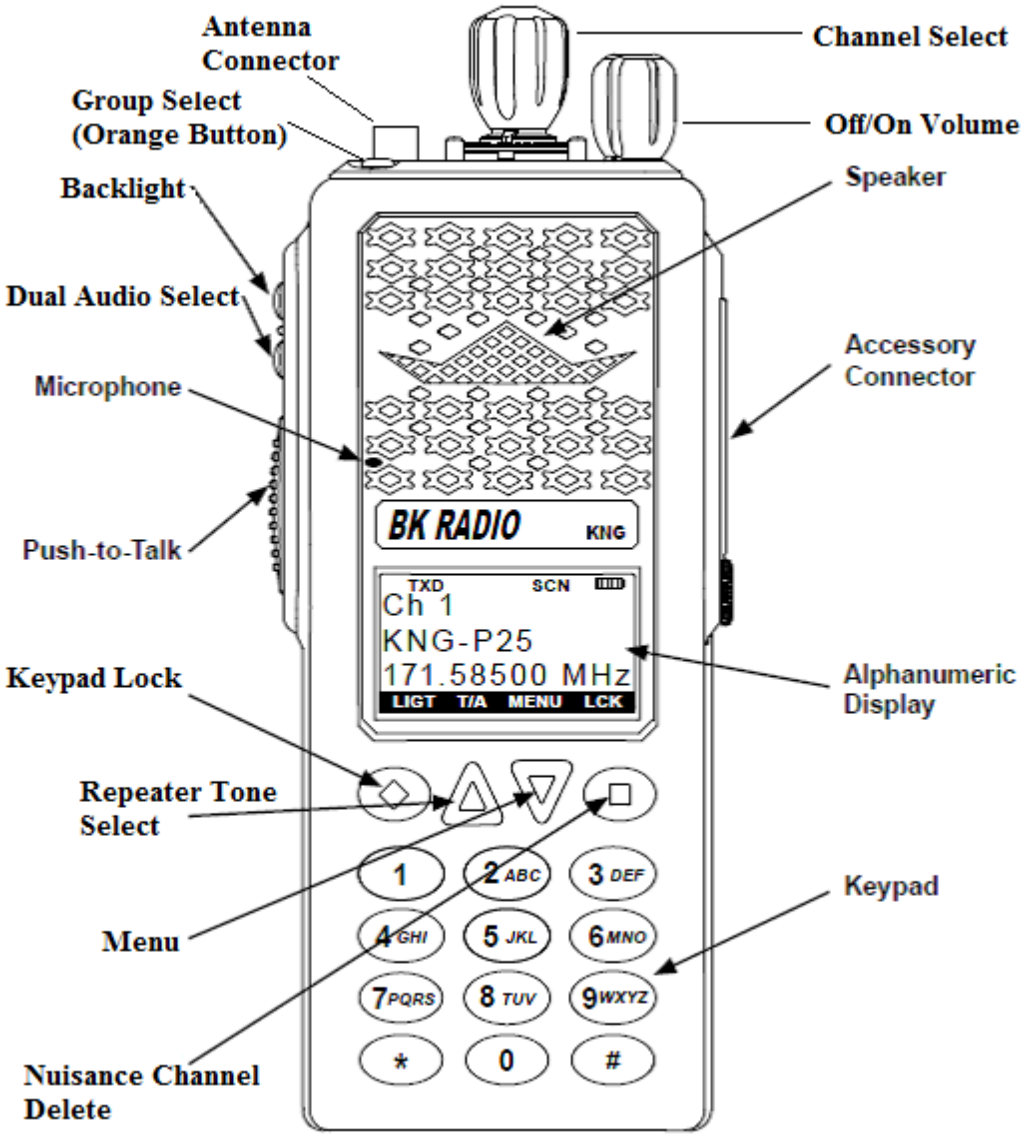
Battery: As mentioned above, the Channel Busy Indicator will alert users to a low battery. To remove the battery, push up on the metal tab on the side of the case while twisting the battery pack approximately 30 degrees and separating it from the radio. Bendix/Kings have either a rechargeable battery pack or a clam shell which contains 9 AA batteries. If your clam shell is not Orange please contact the Radio manager at the district or call the SO.

KNG HANDHELD RADIO FEATURES

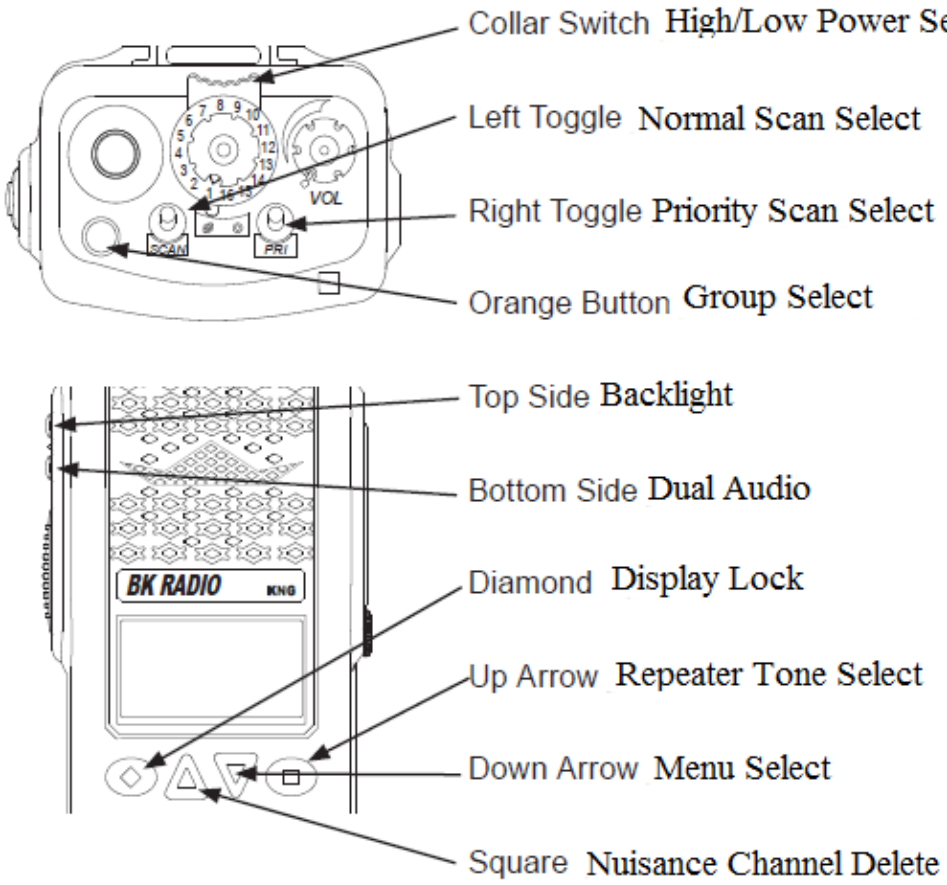
The KNG radio is the replacement for the BK Radio GPH and DPH portable radio models**.** Much of its operation is similar to the older radios, but it also has some enhancements. Refer to the following diagrams for control locations.

FRONT VIEW

The middle of the KNG display has three lines of text. The top line displays the Zone (Group) name. The second line displays the channels name, and the third line is the transmit code guard (aka repeater tone number or User Code Guard) in use.



Your Radio Settings



The button functions are programmable and will vary from forest to forest.

MENU SELECTIONS

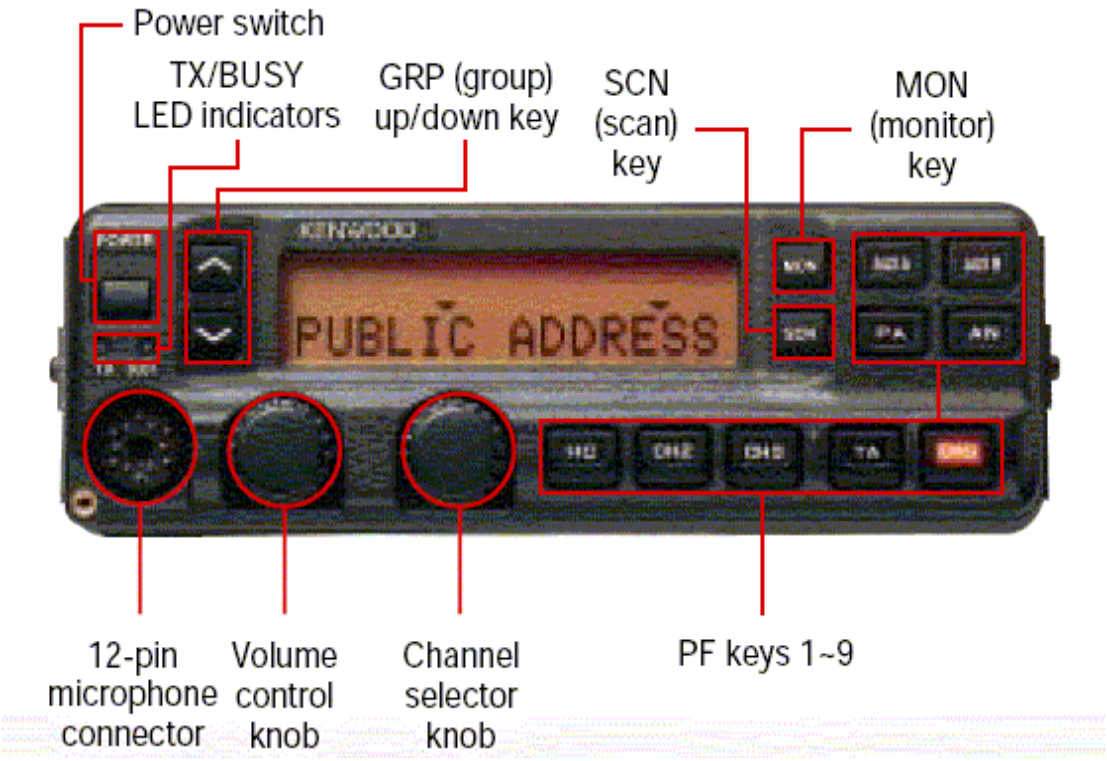
Pressing the Down Arrow button will invoke the radio's menu. The following are choices that can be selected from this menu.

- Squelch Set (Manual or Automatic)
- Scan List
- Cloning (refer to the KNG programming manual for instructions if needed)
- Zone Scan List
- Zone Scan (Enable or Disable)
- Monitor (Bypasses any receiver tone protection if used)
- Mixed Mode Transmit (Used only when operating in digital mode)
- User Transmit NACs (Used only in digital operation)
- Keypad Programming
- Version (Displays firmware version)
- Contrast (Adjust the display contrast)
- Radio Status

Components and functions of Bendix/King Base Station and Mobile Radios:

Using a Bendix/King base station or mobile radio is similar to using a Bendix/King handheld radio. The functions that are controlled by the 5 buttons located below the display screen are active if a triangle is present in the screen above the button. Functions of the buttons are as follows:
MON The monoitor button will cause the radio to produce a constant noice when activated. This may be useful to find a comfortable volume level.
SCN The scan button provides the same function as the scan toggle on a handheld radio. Channels are entered or deleted from the scan bank as described above for handheld radios.
PRI The priority button provides the same function as the priority toggle on a handheld radio. The priority channel is entered using the same method as described above for handheld radios.
GRP The group button is used to change groups. This is done by pushing the group button and turning the channel knob to the desired group.
SQL This button is used to adjust the squelch. This adjustment should be unneccessary. If you feel the squelch needs adjusted on your radio, contact your District Radio Coordinator.

Components and functions of Kenwood TK-790 Mobile Radios:



Functions of the buttons are as follows:
Group Selection The up/down arrows used to change groups. The group selected is indicated by the number in the left side of the display screen.
SCN The scan button activates the scan function of those channels that have been entered into the scan bank as described below for the D/A button. The scanning function is activated when the display screen reads “SCAN”.
D/A This button is used to delete or add channels into the scan bank for that group. A downward pointing arrow on the right side of the display screen indicates a channel is included in the scan list.
DIM This button is used to adjust the brightness of the display screen.

Components and functions of Vega C-2002 Base Station Remote Consoles:

Vega C-2002 remote consoles are linked to a nearby Bendix/King base station (GBH model) and used to transmit/receive via the base station from an alternate location.
Volume – Adjust using the up/down arrows.
Transmit – To transmit, push the red transmit button on the console or pick up the handset and depress the button on the handle.
Channels - Push SEL F1-F8 for channels 1-8; push SEL ALT F1-F8 for channels 9-16.
Groups – Groups cannot be changed at the console.

Radio User Glossary

Analog Radio: A radio which encodes the audio in a smooth, continuous fashion for transmission.

APCO Project 25 (P25): An industry standard for digital radio equipment.

Band: Sometimes called a frequency band - is a specific range of frequencies in the radio frequency spectrum, which is divided among ranges. Two commonly used bands are ultra high frequencies (UHF) and very high frequencies (VHF). Each band has a defined upper and lower frequency limit (see below).

Bandwidth: Bandwidth can have several meanings, for this manual bandwidth refers to the amount of radio spectrum that is assigned to a radio channel (see Wideband and Narrowband).

Base Station: A stationary radio (generally in offices) that generally produces 30-50 watts.

Code Guard: A copyrighted Bendix/King term for tone.

Command: A label used for a frequency whose function is for administrative/management purposes.

Digital Radio: A radio which digitizes the audio before transmission.

Forest Dispatching: The situation when all resources are dispatched by KDC and all administrative traffic will be using their designated Zone Frequencies

Handheld Radio: A small convenient radio (generally carried on person) that produces 2-5 watts.

KDC: Kootenai Interagency Dispatch Center, located in the KNF Supervisor's Office, Libby, MT.

Mobile Radio: A radio mounted in a vehicle that produces 30-50 watts.

Narrowband: A radio channel that is assigned 12.5 KHz of spectrum.

Net: Refers to a radio network. A radio network is a group of base stations and repeaters that are capable of operating together.

Priority: A feature available on radio transceivers that prioritizes a channel during scanning operation. It will allow the priority channel to be heard if simultaneous transmissions are being received.

Radio Protocols: Proper edict and procedures for radio use.

Remote/Console/Tone Remote/Base Station Remote Console: A device used to remotely operate a base station radio. Often these devices look similar to telephones.

Repeater: A radio which receives a radio signal on one frequency and retransmits on another. Often used to extend the range of a radio system.

Scanning: A feature available on radio transceivers that allows a user to monitor multiple radio channels at the same time.

Simplex/Direct: A radio channel in which the transmit and receive frequency are the same.

Single tone/Toned on one side: A radio channel that has a programmed tone on either the transmit or receive frequency.

Tactical/Work: A frequency whose function is for communication to complete assignments, other than administrative/command purposes.

Tone: A sub-audible signal that is used with a transmit or receive frequency.

Toned both sides: A radio channel that has both a transmit and receive tone.

UHF: Ultra High Frequency. Radio frequencies from 300 MHz to 3000 MHz

VHF: Very High Frequency. Radio frequencies from 30 MHz to 300 MHz

Wideband: A radio channel that is assigned 25 KHz of spectrum.

KNF Radio Frequencies for 2020 distributed on May 5, 2020 by Todd Orr, KNF Radio Tech

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 1 - Kootenai NF Northeast - KSANKA [D1/D3]										
1	Kootenai NE - Northeast WORK	NE WORK	168.7750	103.5	3966	A	168.7750	103.5	0659	A
2	Kootenai NE - Tactical 1	NE TAC 1	171.4750	103.5	3966	A	171.4750	103.5	0659	A
3	Kootenai NE - Tactical 2	NE TAC 2	167.1125	103.5	3966	A	167.1125	103.5	0659	A
4	Kootenai NE - Tactical 3	NE TAC 3	171.4750	114.8	3966	A	171.4750	114.8	0659	A
5	Kootenai NE - Tactical 4	NE TAC 4	167.1125	114.8	3966	A	167.1125	114.8	0659	A
6	Kootenai NE - Pinkham	PINKHAM	171.2625	ø	3966	A	163.3500	107.2	0659	A
7	Kootenai NE - Webb	WEBB	171.2625	ø	3966	A	163.3500	103.5	0659	A
8	Kootenai NE - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
9	Kootenai NE - Marston	MARSTON	171.2625	ø	3966	A	163.3500	114.8	0659	A
10	Kootenai NF - Air-to-Ground EAST	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
11	Kootenai NE - Blue Kasanka	BLUE KAS	171.2625	ø	3966	A	163.3500	167.9	0659	A
12	Eureka Volunteer Fire Department	EUR VFD	154.2050	ø	3966	A	154.2050	ø	0659	A
13	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
14	Local Logging Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
15	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A
16	)tana Logging Association	MLA	151.505	ø	3966	A	151.505	94.8	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 2 - Kootenai NF - State/DNRC										
1	Kootenai SE - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
2	Kooteani SF - Allen Libby	ALLN LIB	172.2500	ø	3966	A	164.1250	151.4	0659	A
3	Kooteani W - Cougar	COUGAR	171.3875	ø	3966	A	165.4625	141.3	0659	A
4	Kootenai NE - Marston	MARSTON	171.2625	ø	3966	A	163.3500	114.8	0659	A
5	Montana DNRC - Libby Unit Repeater Calx Mtn	CALX LU	151.2650	ø	3966	A	159.3525	114.8	0659	A
6	Montana DNRC - Libby Unit DIRECT	DNRC LU	151.2650	ø	3966	A	151.2650	114.8	0659	A
7	Montana DNRC - Stillwater Unit/Olney DIRECT	STILLWTR	151.2500	ø	3966	A	151.2500	ø	0659	A
8	Montana DNRC - Kalispell Unit DIRECT	DNRC KU	151.1750	ø	3966	A	151.1750	192.8	0659	A
9	Montana DNRC - Plains Unit Repeater - Pat's Knob	PATS KNB	151.1900	ø	3966	A	159.3600	141.3	0659	A
10	Montana DNRC - Plains Unit Repeater - Richard's Peak	RICHARDS	151.1900	ø	3966	A	159.3600	114.8	0659	A
11	Montana DNRC - Plains Unit DIRECT	DNRC PU	151.1900	ø	3966	A	151.1900	ø	0659	A
12	Montana DNRC - Air-to-Ground/Tactical PRIMARY	YELLOW	151.2200	ø	3966	A	151.2200	ø	0659	A
13	Montana DNRC - Air-to-Ground/Tactical SECONDARY	ORANGE	151.4000	ø	3966	A	151.4000	ø	0659	A
14	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
15	Montana State Mutual Aid - GREEN	GREEN	171.4750	ø	3966	A	171.4750	156.7	0659	A
16	Montana Mutual Aid - TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 3 - Kootenai NF - Air Ops East Zone										
1	Kootenai NF - Libby DIRECT	LIBB DIR	172.2500	ø	3966	A	172.2500	123.0	0659	A
2	Kootenai NF - Ksanka DIRECT	KSNK DIR	171.2625	ø	3966	A	171.2625	123.0	0659	A
3	DECK	DECK	163.7125	ø	3966	A	163.7125	110.9	0659	A
4	Kootenai NF - Blue Libby	BLU LIBB	172.2500	ø	3966	A	164.1250	167.9	0659	A
5	Kootenai NE - Blue Ksanka	BLU KSNK	171.2625	ø	3966	A	163.3500	167.9	0659	A
6	Kootenai SE - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
7	Kooteani SF - Allen Libby	ALLN LIB	172.2500	ø	3966	A	164.1250	151.4	0659	A
8	Kootenai NE - Webb	WEBB	171.2625	ø	3966	A	163.3500	103.5	0659	A
9	Kootenai NE - Pinkham	PINKHAM	171.2625	ø	3966	A	163.3500	107.2	0659	A
10	Kootenai NE - Marston	MARSTON	171.2625	ø	3966	A	163.3500	114.8	0659	A
11	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
12	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G W	166.9000	ø	3966	A	166.9000	ø	0659	A
13	Flathead NF - DIRECT	FNF DIR	173.1125	ø	3966	A	173.1125	123.0	0659	A
14	Flathead NF - Air-to-Ground PRIMARY	FNF A/G	169.1250	ø	3966	A	169.1250	123.0	0659	A
15	Montana Mutual Aid - TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 4 - Kootenai NF - Three Rivers [D4]										
1	Kootenai NF - West Zone DIRECT	WEST DIR	171.3875	ø	3966	A	171.3875	110.9	0659	A
2	Kootenai NF - District 4 Work	D4 WORK	168.7750	136.5	3966	A	168.7750	136.5	0659	A
3	Kootenai NF - District 4 Tactical 1	D4 TAC 1	171.4750	136.5	3966	A	171.4750	136.5	0659	A
4	Kootenai NF - District 4 Tactical 2	D4 TAC 2	167.1125	136.5	3966	A	167.1125	136.5	0659	A
5	Kootenai NF - Baldy Mountain	BALDY	171.3875	ø	3966	A	165.4625	136.5	0659	A
6	Kootenai NF - Henry	MT HENRY	171.3875	ø	3966	A	165.4625	156.7	0659	A
7	Kootenai NF - Berray	BERRAY	171.3875	ø	3966	A	165.4625	123.0	0659	A
8	Kootenai NF - King Mountain	KING	171.3875	ø	3966	A	165.4625	110.9	0659	A
9	Kootenai NF - Webb Mountain	WEBB	171.2625	ø	3966	A	163.3500	103.5	0659	A
10	Kootenai NF - Government Peak	GOVMNT	171.3875	ø	3966	A	165.4625	131.8	0659	A
11	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
12	Kootenai NF - Blue Mountain Libby - [Southeast Zone]	BLUE LIB	172.2500	ø	3966	A	164.1250	167.9	0659	A
13	Local Government Direct	LOC GOV	154.0400	156.7	3966	A	154.0400	156.7	0659	A
14	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
15	Local Logging Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
16	Montana Mutual Aid - TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 5 - Kooteani NF - Libby [D5]										
1	Kootenai NF - Libby DIRECT	LIBB DIR	172.2500	ø	3966	A	172.2500	123.0	0659	A
2	Kootenai NF - District 5 Work	D5 WORK	168.7750	146.2	3966	A	168.7750	146.2	0659	A
3	Kootenai NF - District 5 Tactical 1	D5 TAC 1	171.4750	146.2	3966	A	171.4750	146.2	0659	A
4	Kootenai NF - District 5 Tactical 2	D5 TAC 2	167.1125	146.2	3966	A	167.1125	146.2	0659	A
5	Kootenai NF - Blue Mountain Libby - [Southeast Zone]	BLU LIBB	172.2500	ø	3966	A	164.1250	167.9	0659	A
6	Kootenai NF - Allen Libby - [Southeast Zone]	ALLN LIB	172.2500	ø	3966	A	164.1250	151.4	0659	A
7	Kootenai NF - Tony	TONY	172.2500	ø	3966	A	164.1250	123.0	0659	A
8	Kootenai NF - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
9	Kootenai NF - Allen West - [West Zone]	ALLN W	171.3875	ø	3966	A	165.4625	151.4	0659	A
10	Kootenai NF - Horse Mtn	HORSEMTN	172.2500	ø	3966	A	164.1250	100.0	0659	A
11	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
12	Lincoln County/Libby Rural Fire Dept.	CO FIRE	154.2050	ø	3966	A	154.2050	156.7	0659	A
13	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
14	Montana Logging Association	MLA	151.505	ø	3966	A	151.505	94.8	0659	A
15	Local Logging Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
16	Montana Mutual Aid - TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 6 - Kootenai NF - Air Ops West Zone										
1	Kootenai NF - West Zone DIRECT	WEST DIR	171.3875	ø	3966	A	171.3875	127.3	0659	A
2	Kootenai NF - Baldy Mountain	BALDY	171.3875	ø	3966	A	165.4625	136.5	0659	A
3	DECK	DECK	163.7125	ø	3966	A	163.7125	110.9	0659	A
4	Kootenai NF - King Mountain	KING	171.3875	ø	3966	A	165.4625	110.9	0659	A
5	Kootenai NF - Henry	MT HENRY	171.3875	ø	3966	A	165.4625	156.7	0659	A
6	Kootenai NF - Government Peak	GOVMNT	171.3875	ø	3966	A	165.4625	131.8	0659	A
7	Kootenai NF - 80 Peak	80 PEAK	171.3875	ø	3966	A	165.4625	100.0	0659	A
8	Kootenai NF - Allen West - [West Zone]	ALLN W	171.3875	ø	3966	A	165.4625	151.4	0659	A
9	Kootenai NF - Cougar	COUGAR	171.3875	ø	3966	A	165.4625	141.3	0659	A
10	Kootenai NF - Minton	MINTON	171.3875	ø	3966	A	165.4625	127.3	0659	A
11	Kootenai NF - Berray	BERRAY	171.3875	ø	3966	A	165.4625	162.2	0659	A
12	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
13	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
14	Montana DNRC - Libby Unit Repeater Calx Mtn	CALX LU	151.2650	ø	3966	A	159.3525	114.8	0659	A
15	Montana DNRC - Air-to-Ground/Tactical PRIMARY	YELLOW	151.2200	ø	3966	A	151.2200	ø	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 7 - Kootenai NF - Cabinet [D7]										
1	Kootenai NF - D7 Fire Tac	WEST DIR	171.3875	127.3	3966	A	171.3875	127.3	0659	A
2	Kootenai NF - District 7 Work	D7 WORK	168.7750	131.8	3966	A	168.7750	131.8	0659	A
3	Kootenai NF - District 7 Tactical 1	D7 TAC 1	167.1125	131.8	3966	A	167.1125	131.8	0659	A
4	Kootenai NF - District 7 Tactical 2	D7 TAC 2	170.5000	131.8	3966	A	170.5000	131.8	0659	A
5	Kootenai NF - Government Peak	GOVMNT	171.3875	ø	3966	A	165.4625	131.8	0659	A
6	Kootenai NF - Minton	MINTON	171.3875	ø	3966	A	165.4625	127.3	0659	A
7	Kootenai NF - 80 Peak	80 PEAK	171.3875	ø	3966	A	165.4625	100.0	0659	A
8	Kootenai NF - Allen West - [West Zone]	ALLN W	171.3875	ø	3966	A	165.4625	151.4	0659	A
9	Kootenai NF - Allen Libby - [Southeast Zone]	ALLN LIB	172.2500	ø	3966	A	164.1250	151.4	0659	A
10	Kootenai NF - Berray	BERRAY	171.3875	ø	3966	A	165.4625	162.2	0659	A
11	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
12	Kootenai NF - Cougar	COUGAR	171.3875	ø	3966	A	165.4625	141.3	0659	A
13	Montana Logging Association	MLA	151.5050	ø	3966	A	151.5050	94.8	0659	A
14	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
15	Local Logging Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
16	Montana Mutual Aid - TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 8 - Idaho Panhandle NF										
1	IPNF - Hall Mountain	HALL MT	172.4000	107.2	3966	A	165.4875	123.0	0659	A
2	IPNF - Saddle Mountain	SADDLE	172.4000	107.2	3966	A	165.4875	131.8	0659	A
3	IPNF - Horton Ridge	HORTON	172.4000	107.2	3966	A	165.4875	156.7	0659	A
4	IPNF - Black Mountain	BLK MTN	172.4000	107.2	3966	A	165.4875	103.5	0659	A
5	IPNF - Lunch Peak	LUNCH PK	172.4000	107.2	3966	A	165.4875	136.5	0659	A
6	IPNF - Sandpoint Baldy	SD BALDY	172.4000	107.2	3966	A	165.4875	110.9	0659	A
7	IPNF - Lightning Creek	LGHTN CR	172.4000	107.2	3966	A	165.4875	167.9	0659	A
8	IPNF - Little Blacktail	L BLKTL	172.4000	107.2	3966	A	165.4875	100.0	0659	A
9	IPNF - Facet Peak	FACET PK	169.9250	107.2	3966	A	165.5625	123.0	0659	A
10	IPNF - Little Guard Mountain	L GRD MT	169.9250	107.2	3966	A	165.5625	156.7	0659	A
11	IPNF - Monument Mountain	MONUMENT	169.9250	107.2	3966	A	165.5625	131.8	0659	A
12	IPNF - Mica Peak	MICA PK	169.9250	107.2	3966	A	165.5625	167.9	0659	A
13	IPNF - Wardner Peak	WRDNR PK	169.9250	107.2	3966	A	165.5625	136.5	0659	A
14	IPNF - Air-to-Ground [54]	A/G 54	168.5375	ø	3966	A	168.5375	ø	0659	A
15	Idaho Department of Lands - Air-to-Ground	A/G IDL	151.1450	ø	3966	A	151.1450	ø	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 9 - Lolo NF										
1	Lolo NF - West DIRECT	W DIRECT	172.3875	ø	3966	A	172.3875	127.3	0659	A
2	Lolo NF - Thompson's Peak	THOMPSON	172.3875	ø	3966	A	164.1750	103.5	0659	A
3	Lolo NF - Camel's Hump	CAMELS	172.3875	ø	3966	A	164.1750	110.9	0659	A
4	Lolo NF - Eddy Peak	EDDY PK	172.3875	ø	3966	A	164.1750	131.8	0659	A
5	Lolo NF - Richard's Peak	RICHARDS	172.3875	ø	3966	A	164.1750	167.9	0659	A
6	Lolo NF - Lookout	LOOKOUT	172.3875	ø	3966	A	164.1750	146.2	0659	A
7	Lolo NF - East DIRECT	E DIRECT	172.3750	ø	3966	A	172.3750	127.3	0659	A
8	Lolo NF - Richmond Point	RICHMOND	172.3750	ø	3966	A	164.1000	167.9	0659	A
9	Lolo NF - Lake Mountain	LAKE MTN	172.3750	ø	3966	A	164.1000	110.9	0659	A
10	Lolo NF - Quigg Peak	QUIGG	172.3750	ø	3966	A	164.1000	156.7	0659	A
11	Lolo NF - West Air-to-Ground	W A/G	166.7500	ø	3966	A	166.7500	ø	0659	A
12	Lolo NF - East Air-to-Ground	E A/G	167.8875	ø	3966	A	167.8875	ø	0659	A
13	Lolo NF - White Mountain	WHITE MT	172.3750	ø	3966	A	164.1000	107.2	0659	A
14	Lolo NF - Mineral Peak	MINERAL	172.3750	ø	3966	A	164.1000	136.5	0659	A
15	Lolo NF - Portable	PORTABLE	172.3750	ø	3966	A	164.1000	192.8	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 10 - Flathead NF										
1	Flathead NF - DIRECT	FNF DIR	173.1125	ø	3966	M	173.1125	123.0	0659	A
2	Flathead NF - Werner Peak LO [Stillwater SF]	WERNER	173.1125	ø	3966	M	164.3750	136.5	0659	A
3	Flathead NF - Numa LO [Glacier NP]	NUMA	173.1125	ø	3966	M	164.3750	167.9	0659	A
4	Flathead NF - Ashley Mountain	ASHLEY	173.1125	ø	3966	M	164.3750	131.8	0659	A
5	Flathead NF - Kerr Mountain [Blacktail Mountain]	KERR	173.1125	ø	3966	M	164.3750	123.0	0659	A
6	Flathead NF - Desert Mountain	DESERT	173.1125	ø	3966	M	164.3750	107.2	0659	A
7	Flathead NF - Scalplock Mountain LO [Glacier NP]	SCALPLOC	173.1125	ø	3966	M	164.3750	103.5	0659	A
8	Flathead NF - Patrol Ridge	PATROL	173.1125	ø	3966	M	164.3750	100.0	0659	A
9	Flathead NF - Baptiste LO	BAPTISTE	173.1125	ø	3966	M	164.3750	141.3	0659	A
10	Flathead NF - Lookout [Spotted Bear Lookout]	LOOKOUT	173.1125	ø	3966	M	164.3750	114.8	0659	A
11	Flathead NF - Napa Point [FS]	FS NAPA	173.1125	ø	3966	M	164.3750	156.7	0659	A
12	Flathead NF - Elbow Point	ELBOW	173.1125	ø	3966	M	164.3750	110.9	0659	A
13	Flathead NF - Air-to-Ground PRIMARY	FNF A/G	169.1250	ø	3966	A	169.1250	123.0	0659	A
14	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A
15	Glacier NP - Parkwide 1	GNP 1	166.3750	ø	3966	M	167.0250	156.7	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 11 - Kooteani NF - North East Emergency Group [D1/D3]										
1	Search & Rescue 1 [Can-Am?]	SAR 1	155.2950	ø	3966	M	155.2950	156.7	0659	A
2	Search & Rescue 2 [?]	SAR 2	159.3150	ø	3966	A	159.3150	156.7	0659	A
3	Lincoln County Sheriff's Office	SHERIFF	155.5950	151.4	3966	A	155.5950	151.4	0659	A
4	Lincoln County Sheriff's Office - Pinkham	SHRF-PNK	155.5950	151.4	3966	A	159.1650	107.2	0659	A
5	Kootenai NE - Marston	MARSTON	171.2625	ø	3966	A	163.3500	114.8	0659	A
6	Kootenai NF - Webb Mountain	WEBB	171.2625	ø	3966	A	163.3500	103.5	0659	A
7	Montana Mutual Aid -EMS- GREY	GREY	155.3250	ø	3966	A	155.3250	156.7	0659	A
8	Canadian Mutual Aid - SILVER	SLVR CAN	163.8900	ø	3966	A	163.8900	ø	0659	A
9	Kootenai NF - District 1 Work	D1 WORK	168.7750	103.5	3966	A	168.7750	103.5	0659	A
10	Kootenai NF - District 3 Tactical 1	D3 TAC 1	163.1250	77.0	3966	A	163.1250	77.0	0659	A
11	Eureka Volunteer Fire Department	EVFD	154.2050	ø	3966	A	154.2050	156.7	0659	A
12	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
13	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
14	Law Enforcement North Direct	N LAW	151.3325	ø	3966	A	151.3325	79.7	0659	A
15	Law Enforcement North Repeater	N LAW RP	151.3325	ø	3966	A	158.7450	79.7	0659	A
16	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 12 - Kooteani NF - Three Rivers Emergency Group [D4]										
1	Kootenai NF - District 4 Tactical 1	D4 TAC 1	171.4750	136.5	3966	A	171.4750	136.5	0659	A
2	Kootenai NF - District 4 Tactical 2	D4 TAC 2	167.1125	136.5	3966	A	167.1125	136.5	0659	A
3	Kootenai NF - District 4 Work	D4 WORK	168.7750	136.5	3966	A	168.7750	136.5	0659	A
4	Kootenai NF - King Mountain	KING	171.3875	ø	3966	A	165.4625	110.9	0659	A
5	Kootenai NF - Baldy Mountain	BALDY	171.3875	ø	3966	A	165.4625	136.5	0659	A
6	Kootenai NF - Henry	MT HENRY	171.3875	156.7	3966	A	165.4625	156.7	0659	A
7	Kootenai NF - Berray	BERRAY	171.3875	ø	3966	A	165.4625	162.2	0659	A
8	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
9	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
10	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
11	Local Government	LOC GOV	154.0400	156.7	3966	A	154.0400	156.7	0659	A
12	Montana Mutual Aid - EMS - Troy Volunteer Ambulance	PINK	155.3850	ø	3966	A	155.3850	156.7	0659	A
13	Troy Volunteer Fire Department	CO FIRE	154.2050	ø	3966	A	154.2050	ø	0659	A
14	Canadian Mutual Aid - SILVER	SLVR CAN	163.8900	ø	3966	A	163.8900	ø	0659	A
15	Local Logging Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
16	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 13 - Kooteani NF - Libby Emergency Group [D5]										
1	Kootenai NF - Libby DIRECT	LIBB DIR	172.2500	ø	3966	A	172.2500	123.0	0659	A
2	Kootenai NF - Blue Mountain Libby - [Southeast Zone]	BLU LIBB	172.2500	ø	3966	A	164.1250	167.9	0659	A
3	Kootenai NF - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
4	Kootenai NF - Tony	TONY	172.2500	ø	3966	A	164.1250	123.0	0659	A
5	Kootenai NF - District 5 Tactical 2	D5 TAC 2	167.1125	146.2	3966	A	167.1125	146.2	0659	A
6	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
7	Libby Rural Fire Department	CO FIRE	154.2050	ø	3966	A	154.2050	ø	0659	A
8	Libby Volunteer Ambulance	WHITE	155.2800	ø	3966	A	155.2800	156.7	0659	A
9	Libby Volunteer Ambulance	PINK	155.3850	ø	3966	A	155.3850	156.7	0659	A
10	David Thompson Search and Rescue	DT SAR 1	155.2650	ø	3966	A	155.2650	ø	0659	A
11	Local Government Direct	LOC GOV	154.0400	ø	3966	A	154.0400	156.7	0659	A
12	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A
13	Local Logger Channel	LOGGER	151.9250	ø	3966	A	151.9250	ø	0659	A
14	Montana Logger Association	MLA	151.5050	ø	3966	A	151.5050	94.8	0659	A
15	NOAA 400 Wx1 - Helena, Havre, Missoula [WIDEBAND] [OPEN]	NOAA400	162.4000	ø	3966	A	ø	ø	0659	ø
16	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 14 - Kootenai NF - Cabinet Emergency Group [D7]										
1	Kootenai NF - West Zone DIRECT	WEST DIR	171.3875	ø	3966	A	171.3875	127.3	0659	A
2	Kootenai NF - District 7 Tactical 1	D7 TAC 1	167.1125	131.8	3966	A	167.1125	131.8	0659	A
3	Thompson Falls RFD	TF RFD	154.1300	ø	3966	A	154.1300	ø	0659	A
4	Trout Creek RFD	TC RFD	154.1450	ø	3966	A	154.1450	ø	0659	A
5	Kootenai NF - Cougar	COUGAR	171.3875	ø	3966	A	165.4625	141.3	0659	A
6	Kootenai NF - Government Peak	GOVMNT	171.3875	ø	3966	A	165.4625	131.8	0659	A
7	Noxon RFD	NOXO RFD	154.1750	ø	3966	A	154.1750	ø	0659	A
8	Heron RFD	HERN RFD	154.2500	210.7	3966	A	154.2500	ø	0659	A
9	Lolo NF - West DIRECT	W DIRECT	172.3875	ø	3966	A	172.3875	123.0	0659	A
10	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
11	Montana Mutual Aid - FIRE Primary - RED	RED	154.0700	ø	3966	A	154.0700	156.7	0659	A
12	Kootenai NF - 80 Peak	80 PEAK	171.3875	ø	3966	A	165.4625	100.0	0659	A
13	SC Sheriff	SC SHERF	155.7300	ø	3966	A	159.0750	173.8	0659	A
14	Noxon EMS	NOXO EMS	155.2800	ø	3966	A	155.2800	ø	0659	A
15	Kootenai NF - District 7 Tactical 2	D7 TAC 2	170.5000	131.8	3966	A	170.5000	131.8	0659	A
16	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 15 - Kootenai NF - Dispatch Backup Radio Group										
1	Kootenai NE - Webb	WEBB	171.2625	ø	3966	A	163.3500	103.5	0659	A
2	Kootenai NE - Pinkham	PINKHAM	171.2625	ø	3966	A	163.3500	107.2	0659	A
3	Kootenai NE - Marston	MARSTON	171.2625	ø	3966	A	163.3500	114.8	0659	A
4	Kootenai NF - Blue Mountain Libby - [Southeast Zone]	BLU LIBB	172.2500	ø	3966	A	164.1250	167.9	0659	A
5	Kootenai NF - Tony	TONY	172.2500	ø	3966	A	164.1250	123.0	0659	A
6	Kootenai NF - Calx	CALX	172.2500	ø	3966	A	164.1250	146.2	0659	A
7	Kootenai NF - Baldy Mountain	BALDY	171.3875	ø	3966	A	165.4625	136.5	0659	A
8	Kootenai NF - King Mountain	KING	171.3875	ø	3966	A	165.4625	110.9	0659	A
9	Kootenai NF - Henry	MT HENRY	171.3875	ø	3966	A	165.4625	156.7	0659	A
10	Kootenai NF - Allen West - [West Zone]	ALLN W	171.3875	ø	3966	A	165.4625	151.4	0659	A
11	Kootenai NF - Cougar	COUGAR	171.3875	ø	3966	A	165.4625	141.3	0659	A
12	Montana DNRC - Libby Unit Repeater Calx Mtn	CALX LU	151.2650	ø	3966	A	159.3525	114.8	0659	A
13	Montana DNRC - Air-to-Ground/Tactical PRIMARY	YELLOW	151.2200	ø	3966	A	151.2200	ø	0659	A
14	TAN[VMED28]-State Air-to-Ground/EMS Comms	TAN	155.3400	ø	3966	A	155.3400	156.7	0659	A
15	Kootenai NF - Air-to-Ground WEST [A/G 29]	A/G 29 W	166.9000	ø	3966	A	166.9000	ø	0659	A
16	Kootenai NF - Air-to-Ground EAST [A/G 52]	A/G 52 E	168.3875	ø	3966	A	168.3875	ø	0659	A

Channel	Description	Display	Rx	Tone	NAC	Mode	Tx	Tone	NAC	Mode
Group 16 - OPEN - NOAA Weather Channels +										
1	NOAA 400 Wx1 - Helena, Havre, Missoula [WIDEBAND]	NOAA400	162.4000	ø	N/A	A	ø	ø	0659	ø
2	NOAA 425 Wx2 - Mammoth, Broadus [WIDEBAND]	NOAA425	162.4250	ø	N/A	A	ø	ø	0659	ø
3	NOAA 450 Wx3 - Grant Village, Ryegate, Hardin [WIDEBAND]	NOAA450	162.4500	ø	N/A	A	ø	ø	0659	ø
4	NOAA 475 Wx4 - Dillon, Ekalaka, Glendive [WIDEBAND]	NOAA475	162.4750	ø	N/A	A	ø	ø	0659	ø
5	NOAA 500 Wx5 - Bozeman, Lewistown, Conrad, Jordan [WIDEBAND]	NOAA500	162.5000	ø	N/A	A	ø	ø	0659	ø
6	NOAA 525 Wx6 - Livingston, Browning, Glentana [WIDEBAND]	NOAA525	162.5250	ø	N/A	A	ø	ø	0659	ø
7	NOAA 550 Wx7 - Billings, Butte, Great Falls, Kalispell [WIDEBAND]	NOAA550	162.5500	ø	N/A	A	ø	ø	0659	ø
8	Flathead NF - DIRECT	FNF DIR	173.1125	ø	3966	A	173.1125	123.0	0659	A
9	Flathead NF - Spotted Bear DIRECT	SPTBRDIR	173.6250	ø	3966	A	173.6250	114.8	0659	A
10	Flathead NF - Work 1	FNFWORK1	168.1625	ø	3966	A	168.1625	123.0	0659	A
11	Kootenai NF - Ksanka DIRECT	KSNK DIR	171.2625	ø	3966	A	171.2625	123.0	0659	A
12	Kootenai NF - Libby DIRECT	LIBB DIR	172.2500	ø	3966	A	172.2500	123.0	0659	A
13	Kootenai NF - West DIRECT	KNFW DIR	171.3875	ø	3966	A	171.3875	123.0	0659	A
14	Kootenai NF - NE WORK [Ksanka]	NE WORK	163.1250	ø	3966	A	163.1250	103.5	0659	A
15	Region 1 Fire Tactical	R1 TAC	167.1125	ø	3966	A	167.1125	ø	0659	A
16	AIR GUARD - EMERGENCY USE ONLY	AIRGUARD	168.6250	ø	3966	A	168.6250	110.9	0659	A