



NATIONAL JAMBOREE 2017 THE SUMMIT WEST VIRGINIA



K2BSA was established as the amateur radio station for the BSA National Office in 1971. It has been in operation at every Jamboree since 1977. It has introduced thousands of Scouts to amateur radio.

AMATEUR RADIO VISION JAMBOREE 2017

Amateur radio has been a part of the Jamboree experience since at least 1953 when K6BSA was in operation from Irvine Ranch in California. This was followed by K3BSA in 1957 and 1964 at Valley Forge, KØBSA in 1960 from Colorado Springs, K7WSJ at the 1967 World Scout Jamboree in Idaho, KF7BSA in 1969 from Idaho, and KJ3BSA in Moraine State Park and KJ7BSA in Idaho for the 1973 Jamboree.

K2BSA has been in operation at the Jamboree since 1977. Over that time it has provided demonstrations of amateur radio to thousands of Scouts, provided training that helped Scouts earn hundreds of Radio Merit Badges,

and along the way introduced the fun, technology, and magic of amateur radio.

The 2017 Jamboree operation at the Summit Bechtel Scout Reserve in West Virginia will take advantage of lessons learned during the 2013 Jamboree, the three VHF/UHF repeaters installed by Icom America, as well as other existing infrastructure from 2013.

K2BSA plans to:

- Operate a demonstration station with a goal of introducing ten percent of Jamboree participants to amateur radio,
- Teach the Radio Merit Badge with a goal of 400 Scouts earning the

badge during the Jamboree,

- Provide an ARDF-Foxhunting course with expectations of over 100 teams completing the course,
- Provide high visibility events for participants, such as a two-way contact with an astronaut on the International Space Station,
- Operate a special event station to make contacts worldwide with amateur radio and Scouting enthusiasts to allow them to participate in the Jamboree.

K2BSA will also operate social media and website channels to publicize activities and engage a broad audience to publicize the event and activities.

STATEMENT OF PURPOSE

- Introduce the science, technology, fun, and magic of amateur radio operation to Scouts and Scout leaders.
- Facilitate earning the Radio Merit Badge. Introduce ARDF-Foxhunting.
- Serve as the amateur radio voice of the Jamboree via two-way radio contacts within the Summit and worldwide.



K2BSA GOALS

- Provide Scouts exposure to amateur radio, explain what it is, how it is relevant to them, and provide an opportunity to try as many aspects of the hobby as possible within the constraints of the Jamboree.
- Provide demonstrations to at least ten percent of Jamboree participants, including HF SSB and PSK as well as VHF/UHF FM.
- Provide Radio Merit Badge training, counseling, and activities sufficient to allow a Scout to earn the badge within a four-hour time commitment. Target 400 badges earned.
- Provide outdoor, high energy ARDF—Foxhunting training and activities. Set up a course within the Summit Center. Achieve 100 teams of Scouts completing the course during the Jamboree.
- Provide exposure to the Jamboree for radio amateurs throughout the USA and around the world using a special event station.



K2BSA OPERATIONAL OVERVIEW

DEMONSTRATION STATION

Provide amateur radio demonstrations that energize Scouts in communicating with others throughout the country and around the world. Use communication modes that resonate with Scouts such as PSK digital modes that mimic their favorite mode of communication — texting.

- Provide simple, intuitive amateur radio transceivers that Scouts can directly operate with minimal guidance — setups where they will say “I can do this at home!”
- Standardize the demonstrations to present concepts and demonstrate operation.
- Optimize operational flexibility by standardizing around the same set up for every station.
- Provide two fully capable stations with directional antenna to be used in offering Jamboree amateur radio contacts to stations around the world to satisfy that demand and to set-up/stage other stations to communicate with the demonstration stations.

RADIO MERIT BADGE

Facilitate earning the Radio Merit Badge via onsite training and testing, providing Scouts with a visible goal to achieve that not only introduces amateur radio but provides them a merit badge. Do this within a relatively low-impact time commitment of no more than four hours.

- Highly interactive and engaging classroom presentations sandwiched around on-the-air activities at the nearby demonstration station. Example, time in class to focus on requirements that directly support radio operation, followed by time in the station applying those skills, ending with the remaining time in class working to complete all the merit badge requirements.
- Training sessions that start every hour on the hour to minimize delay for the Scouts that walk up with a general interest in amateur radio and can commit to spending the next four hours earning the Radio Merit Badge.

ARDF – FOXHUNTING

ARDF stands for Amateur Radio Direction Finding. Foxhunting refers to using ARDF to find hidden transmitters. This activity is ideal for the high adventure focus of the Summit. It gets Scouts on a trail using amateur radio and direction finding techniques, expanding their orienteering skills, and involving them in yet another aspect of amateur radio and technology.

- Provide introductory training on the use of standard, simple, ARDF equipment and antennas in finding hidden transmitters.
- Operate an ARDF course with successive levels of challenges that provide early success yet encourage the development of skills on more challenging tasks.
- Offer walk-up availability to the training and use of the course.
- Stage competitions on a periodic basis to generate interest in amateur radio and technology.

SPECIAL EVENTS

Schedule special events that will be of keen interest to the Scouts as well as local and national media. These should include:

- International Space Station contact.
- Around the world balloon launch with tracking via amateur radio.
- Contacts via low-Earth-orbit amateur radio satellites offered as orbital paths/timing allows.

VHF-UHF REPEATERS

VHF/UHF FM repeater operation fully covers the Jamboree area via hand-held transceivers. This facilitates networking as well as emergency communication.

- VHF FM 146.700 MHz
- UHF FM 444.025 MHz
- UHF D-Star 440.8125 MHz



SPONSORSHIP REQUIREMENTS

TRANSCEIVERS AND REPEATERS

Icom America is the Official Transceiver Supplier for the Jamboree and K2BSA.

ANTENNAS

3 HF directional antennas
3 HF Broadband dipoles
3 HF Vertical antennas

BAND PASS FILTERS

HF filters for all bands 80 to 10m

ANTENNA ROTATORS

3 azimuth rotators

CABLES

~ 1,000 feet coaxial cable

HEADPHONES

30 sets of headphones

ARDF-FOXHUNTING EQUIPMENT

80 meter and 2 meter receivers, antennas and transmitters.

PRINTING

500 QSL Cards
3,000 Participant QSO Log Cards
12 Station Band Cards

PATCHES

300 staff patches

STAFF T-SHIRTS

80 T-shirts

SUPPORTING MATERIALS

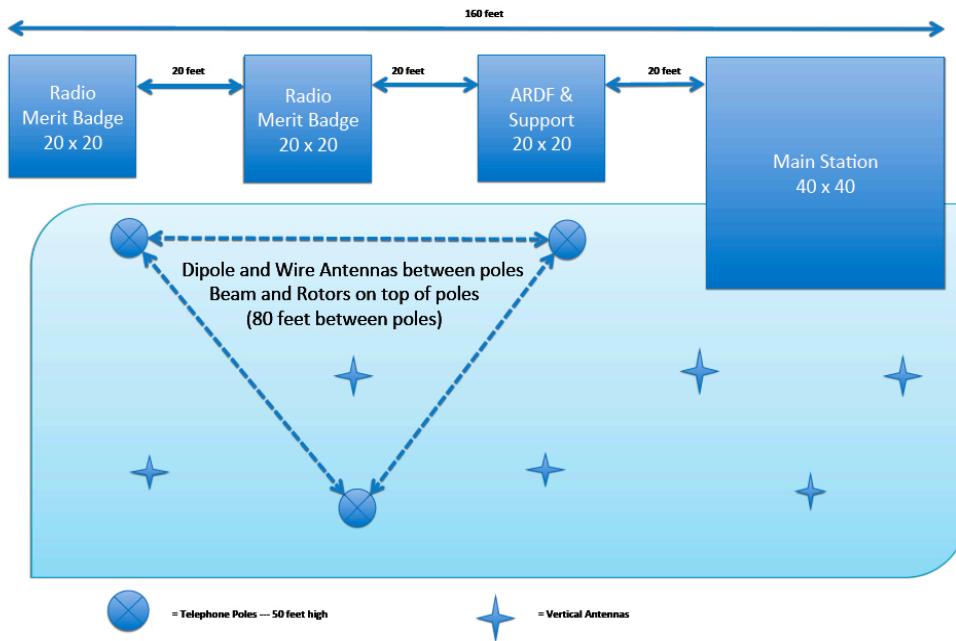
In past Jamborees, ARRL has graciously provided supporting publications, banners, flag, etc.

PROMO HANDOUTS



RESULTS — JAMBOREE 2013

Amateur Radio Demonstrations	QSOs or Contacts	Radio Merit Badges	ARDF Foxhunting
2,604	1,958	339	100+



STAFFING

Forty staff positions are allocated to the K2BSA operation. The Demonstration Team requires 20 staff members, with one member dedicated to serving as registrar for both demonstration and merit badge classes. The Radio Merit Badge Team requires 10. The ARDF-Foxhunting Team needs 4. The Technical Support Team requires 4 staff members during the set up phase. While two will remain with this assignment through

the Jamboree, two will be shared with the Demonstration Team as needed. There is also one position for the chairman and one for covering all social media and promotional opportunities within the Jamboree and outside media. Adjustments will be made on the fly as the situation dictates.

FACILITIES

The facilities diagram shown above is the original request. In 2013 the three 20x20 tents were merged into one 60x20 tent with partitions. We would prefer the separation shown to help with noise problems between classrooms. Plywood flooring was provided for the demonstration station. This is a necessity to prevent electrocution from all the electrical cables and is needed in the other tents to alleviate the muddy seating.

K2BSA AMATEUR RADIO ASSOCIATION

The Association is a 501(c)(3) non-profit that operates to support Radio Scouting activities and is considered the amateur radio station for the Boy Scouts of America's National Council. It is the trustee for the K2BSA call sign, supports Jamboree on the Air and other Scouting events, and operates at the National Scout Jamboree.

CONTACT

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