

Experimental License Application
Broadcast Sports, Incorporated
File No. 0365-EX-PL-2005
1240-1260 MHz
Experimental Purpose Exhibit

The purpose of the requested STA is to permit interference testing of low power wireless microphones on a mobile, itinerant basis. The results of the tests will determine the proper operating parameters for wireless microphones, and establish compatibility with other users of the band. The plan of the applicant is to propose shared, secondary access to this band for Part 74 short-term, itinerant operation of wireless microphones for video production use, specifically at sporting events, such as automobile racing venues and golf events. The applicant is a video production company which conducts research and development activities and develops specialized RF products for video production deployment.

There is, with the reallocation of television channels 52-69 imminent, a severe shortfall in the number of channels for Broadcast Auxiliary (Low Power Auxiliary) use for wireless microphones. These devices are indispensable for video production, and the applicant is exploring alternatives for replacement spectrum. This experimental license is necessary due to the allocation status of this band.

The band is allocated on a primary basis for government radar and satellite operation, and on a secondary basis for Amateur Radio operation. The applicant proposes to avoid interference by utilizing a listen-before-talk operating protocol during experimental operation. As well, the operating parameters are minimal, limiting the interference potential at any given location. The power level is 200 mW, and the location of automobile racing and golf events are such that interference with government radar or satellite earth stations, or with Amateur Radio stations, is highly unlikely. Since Amateur Radio stations are permitted to operate in this band at relatively high levels, it is anticipated that the susceptibility of primary users to interference in this band is minimal. All operation pursuant to this experimental authority will be coordinated in advance with ARRL, the National Association for Amateur Radio, and as well with the local Society of Broadcast Engineers, Inc. frequency coordinator in the markets in which operation will occur.

The applicant conducts video production operations on a nationwide basis. The interference testing and compatibility analyses would be conducted at automobile racing and golf events at various locations around the country. For this reason, nationwide itinerant operation is proposed for this course of experimentation. The required reports will be timely filed during the experimentation period.