

BROADCAST SPORTS TECHNOLOGY
FCC Form 442, Exhibit A
Experimental Application

Applicant is a provider of video transmission equipment for remote video production at sporting events, and in particular, automobile competitions, including auto racing events throughout the United States. These events involve difficult, high ambient RF noise conditions, making telecommand and remote audio transmission from wireless microphones for video production purposes difficult. The applicant proposes to use various equipment and transmission techniques on itinerant, shared frequency bands for video camera control (telecommand) and telemetry from the camera, and one-watt low-power devices for telemetry for video camera synchronization, looking toward overcoming the high noise floor present at such events, which makes video production using remotely controlled cameras difficult.

The operations will involve telecommand and telemetry operation, relative to the control of video cameras, and use of low-power devices on frequencies allocated for shared broadcast auxiliary operation. The telecommand equipment will be that typically used for low power auxiliary operation under Part 74. The frequencies specified in this application are those used for auxiliary operation, and the proposed operation is generally in accordance with those rules. The applicant will insure minimal spectrum occupancy in the various bands at any given location, and will utilize no more channels than are necessary to accomplish the goals of the experimental license at any time. A log of spectrum usage, locations, and frequency coordination information will be kept by the applicant, and may be reviewed by the Commission in the event any question arises concerning operation under the requested authorization.

The applicant will not commence any operation in any location without first contacting the local frequency coordinator, if any, in the specified area. If possible, a coordinator will be on site during operations to insure against interference to any Part 74, or other co-channel user. The applicant has secured an up-to-date list of frequency coordinators for Part 74 operation from the Society of Broadcast Engineers, and will prevent any interference by advance coordination relative to all specified frequency bands. In addition, the applicant will comply with the separation requirements relative to co-channel television stations for operation in the 470-608 MHz and 614-806 MHz bands, as set forth in Section 74.802(b) for Broadcast Auxiliary stations. Applicant subscribes to computer data service that allows continuous updating of data files on new television authorizations, including low-power television operations.

The goals of the operation are to determine optimum frequencies, power levels, and telecommand schemes for remote video camera control and remote video camera synchronization at sporting events with high ambient RF noise levels. The results of the exercise will more properly determine the configuration of equipment for remote (mobile) video production at such events in the future, and the operating parameters for Part 74 licensees in specific applications.