

Aerial Video Systems  
Application for Special Temporary Authority  
File Number 2000-EX-ST-2022  
January 1, 2023 through June 18, 2023

## **Narrative Explanation of Operation**

Aerial Video Systems (AVS), a subsidiary of NEP Broadcast Services, is a video production company which is engaged in video and audio production for television shows, sporting events and entertainment events. AVS has been retained by Turner Broadcasting System to provide video production services for televised NBA Basketball games at various arenas during the current NBA season. To do this, due to heavy use of normal Broadcast Auxiliary and Local Television Transmission Service video bandwidth channels, AVS respectfully requests a grant of Special Temporary Authority for use of the band 3350-3400 MHz to test RF cameras developed by AVS in the arenas just prior to and during the regular NBA season basketball games listed on the attached spreadsheet, during the period January 1, 2023 through June 18, 2023. The band would be used only for camera control, using a single 10 megahertz emission per arena at no more than 250 milliwatts of power. All transmissions will be entirely indoors, inside the arena, so the attenuation outside the arenas would be substantial.

AVS is a licensee in the Local Television Transmission Service and holds other licenses but the frequency bands authorized by those licenses do not permit sufficient bandwidth for video production, including camera control, given the extensive Radio frequency use where most of the NBA arenas are located, during these events.

AVS intends to use at each production a single channel for specialty shallow depth of field cameras for NBA game coverage, just prior to and during the games only, using a maximum of 250 milliwatts of transmitter power (and not more than 0.5W ERP) into an omnidirectional antenna using a 10M0FXW or 10MOD7W emission on a single discrete channel in the band 3350-3400 MHz. AVS has no long term interest in this band. It is developing equipment that could be used in the General Access portion of the CBRS band at 3650-3700 MHz or elsewhere, but that equipment is not now ready for deployment in accordance with Part 96 rules.

All operation within the arenas will be under the direct control of Argyle Nelson, general manager of AVS, who will ensure against any interference to any other users of the same or adjacent bands at all times during any STA operation by AVS and who will serve as the Stop Buzzer contact. AVS will protect any and all United States Government spectrum use prior to or during each of the the events, and should any interference arise, all AVS operation in this band will cease until resolved to the full satisfaction of the complainant. Prior coordination will occur with the SBE Frequency Coordinators in the markets where each arena is located as well.

The mobile number of the Stop Buzzer contact on site, Mr. Argyle Nelson, is 818-317-5348.

Any other inquiries can be addressed to counsel for the applicant as follows:

Christopher D. Imlay  
Booth, Freret & Imlay, LLC  
14356 Cape May Road  
Silver Spring, Maryland 20904-6011  
(301) 384-6384 facsimile  
(301) 351-3795 mobile

(301) 384-5525 office  
[chris@imlaylaw.com](mailto:chris@imlaylaw.com)  
[chris.imlay@gmail.com](mailto:chris.imlay@gmail.com)