

Aerial Video Systems
Application for Special Temporary Authority
File Number 1494-EX-ST-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 previously been granted an STA (WR9XBV, File No. 1256-EX-ST-2020) for use of the band 3450-3500 MHz for use temporarily in the production of a series of television shows in Los Angeles, California, at various *indoor* locations. That STA was renewed periodically (see WR9XBV, File No. 0387-EX-ST-2021, WS9XVK, File No. 1557-EX-ST-2021, WT9XXY, File No. 0953-EX-ST-2022 and WU9XPK, File No. 1887-EX-ST-2022). The most recent of these STA grants expired on June 27, 2023. Since then, AVS has been contracted for additional television production work involving short-range RF cameras inside of television production studios. This application seeks the exact same facilities for the exact same geographic area for the same purpose during the period August 20, 2023 through February 20, 2024. All video production events during this extended period will be inside buildings within 30 kilometers of center coordinates 34-04-28 North, 118-21-36 West). 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 given the location of these events in the heaviest ENG market in the country, and given the number of RF cameras needed for each of these indoor video production activities during the period.

The regular, continuing series of events being supported by this STA, all within the radius specified in the existing application involve video transmitted *within the studios*. The operation pursuant to the STA will be in support of televised programs, regularly filmed during the entirety of the STA period.

The filming for the television productions is essentially continuous throughout the period specified in this STA application.

AVS intends, as in the past, to use at each production venue six RF cameras using a maximum of 250 milliwatts of transmitter power (and not more than 1W ERP) into an omnidirectional antenna using a 10M0FXW or 10M0D7W emission on four discrete channels in this band, *indoors only*, in the band 3450-3500 MHz. *AVS has no long term interest in this band.* It is in the process of developing equipment that could be used in the General Access portion of the CBRS band at 3650-3700 MHz but that equipment is not now ready for deployment in accordance with Part 96 rules. During the STA period, AVS will use the band 3450-3500 MHz for video returns on inside stages.

Video production will be terrestrial only, within the confines of the television studios and event venues, all of which have a high degree of signal attenuation. All operation within the studios and other venues will be under the direct control of Argyle Nelson 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. AVS will protect any and all United States Government or Amateur

Radio 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.

The Stop Buzzer contact on site will be Mr. Argyle Nelson, whose cell phone number is 818-317-5348.

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

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