

**TECHNICAL STATEMENT
SUPPORTING THE REQUEST FOR
SPECIAL TEMPORARY AUTHORIZATION
FOR A PROPOSED MEDIAFLO OPERATION
AT AUGUSTA, GEORGIA**

This Technical Statement provides technical information supporting a request for a special temporary authorization (STA) for a proposed MediaFLO station at Augusta, Georgia. The proposed MediaFLO STA operation will consist of 1 station operating on channel 55 (716-722 MHz). The proposed MediaFLO STA station will employ a directional antenna (DA) system. The antenna system is a Dielectric model TLP-8M-1E with a peanut azimuth pattern shape. The major lobes of the azimuth pattern will be oriented toward 80 and 260 degrees True (see Figure 1). The maximum proposed effective radiated power (ERP) for the horizontally polarized component consistent with FCC practice for evaluating predicted interference to broadcast stations, is 25 kilowatts (kW). The following provides the site coordinates (NAD-27) and antenna radiation center height above mean sea level (AMSL) for the proposed MediaFLO STA station.

33-30-23, 81-57-44, Rc=244.4 m AMSL, 25 kW-DA (See Figure 1)

Interference calculations have been made using the procedures outlined in the FCC's OET-69 Bulletin with adjustments made for Part-27 stations (MediaFLO, see attached Appendix). A 1 kilometer grid, 0.2 kilometer terrain increment and the 2000 US Census were employed. The FCC's database has been used to identify the analog (NTSC) television (TV) and digital television (DTV) assignments for protection. Full service TV and DTV assignments on channels 54, 55 and 56 have been considered.

The following is a list of the stations studied and the calculated interference (OET-69) to those stations from the proposed MediaFLO STA operation.

<u>Station</u>	<u>Channel</u>	<u>Interference</u>	
		<u>Population</u>	<u>Area</u>
WFXG(TV), Augusta, GA (Lic)	54	1310 (0.21%)	0 sq km
WMYT-TV, Rock Hill, SC (Lic)	55	0	0
WSST-TV, Cordele, GA (Lic)	55	0	0
WNCN-DT, Goldsboro, NC (Lic)	55	0	0

<u>Station</u>	<u>Channel</u>	<u>Interference</u>	
		<u>Population</u>	<u>Area</u>
WLOS-DT, Asheville, NC (CP, Lic app)	56	0	0 sq km

The proposed MediaFLO STA operation on channel 55 at the Augusta (25 kW-DA, Rc=244.4 m AMSL) causes no interference (ie, 0 people, 0 sq km, 0.0%) to all known full service analog TV and full service DTV assignments on channels 54, 55 and 56, except for station WFXG(TV) where only 0.21% new interference is calculated to be caused.

In summary, it is believed the proposed MediaFLO STA operation on channel 55 at Augusta, Georgia protects pertinent surrounding broadcast assignments. Therefore, the FCC is respectfully requested to grant the proposed STA operation.

If there are questions concerning this Technical Statement, please communicate with the office of the undersigned.

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