

25.203(l) Analysis for 17/24 GHz BSS Feeder Link Antenna

In this application, DIRECTV Enterprises, LLC (“DIRECTV”) requests, in part, operating authority to allow an earth station antenna at DIRECTV’s Northwest Uplink facility (NWUF) to communicate with DIRECTV RB-1, the 17/24 GHz BSS communications payload on the DIRECTV 14 satellite. Under Section 25.203(l) of the Commission’s rules, feeder link facilities operating in the 25.05-25.25 GHz band can only be licensed in Economic Areas (“EA”) where no existing FS licensee is authorized, and feeder link operations must be coordinated with FS licensees in nearby EAs when the PFD of the feeder link transmitted signal is equal to or greater than $-114 \text{ dBW/m}^2/\text{MHz}$ at the boundary of the FS licensed area.

DIRECTV notes that the earth station that is the subject of this application is located in Yakima County, WA, which is in EA 169. According to the Commission’s ULS database, there are no FS licensees in that EA authorized to operate in the relevant band. The table below was produced as a result of a search of the ULS database for authorizations to operate in the 25.05-25.25 GHz band. As can be seen, there are only seven active licenses in this frequency band and the Market/Area for each is well removed from Yakima County, WA. As such, the PFD of the applied-for feeder link earth station will not exceed $-114 \text{ dBW/m}^2/\text{MHz}$ at the boundary of any FS licensed area.

Call Sign	Licensee Name	Market/Area
WMF850	FiberTower Spectrum Holdings LLC	Baltimore SMSA
WMT307	FiberTower Spectrum Holdings LLC	New York, NY
WMT312	FiberTower Spectrum Holdings LLC	Washington DC SMSA
WMT338	FiberTower Spectrum Holdings LLC	Washington DC SMSA
WQCJ293	Lynch 3G Communications Corp.	Buffalo-Niagra Falls
WQCJ294	Lynch 3G Communications Corp.	Davenport-Moline-Rock Island IA-IL
WQCJ304	FiberTower Spectrum Holdings LLC	Denver-Boulder-Greeley BEA141