

SHOWING REQUIRED UNDER SECTION 25.203(K)

In this application, DIRECTV Enterprises, LLC (“DIRECTV”) seeks to add an additional Ka-band transmit antenna to an existing DIRECTV Ka-band uplink facility. Under Section 25.203(k) of the Commission’s rules, an earth station applicant that proposes to operate in a shared frequency band in which an NGSO system is licensed for feeder links must demonstrate that its proposed operations will not cause unacceptable interference to that system. Iridium Satellite LLC (“Iridium”) is licensed for feeder links in the 29.25-29.3 GHz band, which is also being requested for the new antenna that is the subject of this application.

DIRECTV notes that there are already two Ka-band antennas licensed to transmit across the 29.25-29.3 GHz band at the uplink facility in question. In fact, the new antenna that is the subject of this application will operate in nearly the same location as the existing antennas.¹ In addition, the new antenna is physically and electrically identical to the two existing operational antennas, and the communications parameters being requested (*i. e.*, emission designators, max transmit power, points of communication, etc.) are also identical to those for which the currently operating antennas are authorized. In these circumstances, DIRECTV submits that any change in the overall existing interference environment for Iridium’s NGSO system arising from the addition of this new transmit antenna would be *de minimus* and, as such, a detailed interference evaluation is unnecessary.²

¹ The coordinates of the new antenna are well within 0.5 seconds of longitude and latitude of the existing Ka-band antennas already operating at this site.

² The Commission has previously granted authority to operate earth station antennas at this site based on evidence that the effect of the new operations proposed would have a *de minimus* effect on the overall existing interference environment. *See* IBFS File No. SES-MOD -20100223-00239.