

SHOWING REQUIRED UNDER SECTION 25.203(k)

Call Sign: E060298

In this application, DIRECTV Enterprises, LLC (“DIRECTV”) seeks to modify an existing Ka-band earth station license to add the DIRECTV 10 and DIRECTV 12 satellites as additional points of communication. 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 29.25-29.30 GHz band, which will also be used by DIRECTV 10 and DIRECTV 12. Accordingly, DIRECTV submits this demonstration to satisfy the requirements of Section 25.203(k).

At the outset, DIRECTV notes that this earth station is already licensed to communicate with SPACEWAY 1 at 103° W.L. in the 29.25-29.5 GHz band. This application seeks to add authority to communicate with DIRECTV 10 and DIRECTV 12, also to be located at the nominal 103° W.L.¹ In these circumstances, DIRECTV submits that any change in the overall existing interference environment for Iridium’s NGSO system resulting from the addition of this new point of communication would be *de minimus* and, as such, a detailed interference evaluation is unnecessary.

¹ SPACEWAY 1 is currently located at 102.885° W.L., and DIRECTV currently has pending applications to slightly relocate this satellite to 102.925° W.L. (SAT-MOD-20091009-00108), *i.e.* a change of 0.04°, and to slightly relocated DIRECTV 10 from its current location of 102.775° W.L. to 102.815° W.L. (SAT-MOD-20091009-0010), *i.e.* a change of 0.04°. Once SPACEWAY 1 and DIRECTV 10 are slightly relocated, DIRECTV 12 would then be located at 102.765° W.L. As such, any re-pointing of the already licensed antenna in question would only change its pointing direction slightly to communicate with DIRECTV 10 (*i.e.* 0.07°) or DIRECTV 12 (*i.e.* 0.12°). DIRECTV 10 is currently located at 102.775° W.L., and DIRECTV currently has pending an application to relocate this satellite to 102.815° W.L. (SAT-MOD-20091009-00109), *i.e.* a change of 0.04°. After that slight relocation of DIRECTV 10, DIRECTV 12 would then be located at 102.765° W.L., which is offset from the current DIRECTV 10 location by only 0.01°.