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February 12, 2015

## VIA IBFS

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, SW Washington, DC 20554

## Re: SAT-LOA-20141002-00105, Minor Amendment to Pending application for Space Station Launch and Operate Authority

Dear Ms. Dortch,

With this minor amendment, DISH Operating L.L.C. clarifies the telemetry, tracking and control ("TT&C") characteristics contained in its application for launch and operating authority of the ECHOSTAR-18 satellite.<sup>1</sup>

As stated in the application, there are four command receivers available on ECHOSTAR-18: one at 17.7935 GHz (default), two at 17.303 GHz, and one "flex" receiver that can be tuned anywhere within the 17.790 - 17.795 GHz and 17.795 - 17.800 GHz bands by ground command.<sup>2</sup> While ECHOSTAR-18 is located at 109.9° W.L., the default command center frequency within this range is 17.7935 GHz.

For the telemetry, there are three transmitters available on ECHOSTAR-18: one at 12.203 GHz (default) or 12.204 GHz, one at 12.695 GHz or 12.696 GHz, and one "flex" transmitter that can be tuned anywhere within the 12.690 - 12.695 GHz and 12.695 - 12.700 GHz bands by ground command. While ECHOSTAR-18 is located at 109.9° W.L., the default telemetry center frequency within this range is 12.695 GHz.

A revised Table A.5-1 from Attachment A of the application for the TT&C subsystem is below.

 $^{2}$  Id.

<sup>&</sup>lt;sup>1</sup> See SAT-LOA-20141002-00105, Attachment A, Section A.5.

Revised Table A.5-1 Summary of the TT&C Subsystem of ECHOSTAR-18 while located at 109.9° W.L.

Command/Ranging Frequencies	17,793.5 MHz (RHCP) 17,303 MHz (LHCP)
	17,790 - 17,795 MHz (RHCP) 17,795 - 17,800 MHz (RHCP)
Telemetry/Ranging Frequencies	12,695 MHz (RHCP)
	12,696 MHz (RHCP)
	12,203 MHz (LHCP)
	12,204 MHz (LHCP)
	12,690 - 12,695 MHz (RHCP)
	12,695 - 12,700 MHz (RHCP)

Sincerely,

<u>/s/ Alison Minea</u> Alison Minea Director & Senior Counsel, Regulatory Affairs DISH Operating, L.L.C. 1110 Vermont Ave., NW Suite 750 Washington, DC 20005 (202) 293-0981

cc: Steve Duall Kathyrn Medley