

**EXHIBIT 1**  
**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

DIRECTV Enterprises, LLC (“DIRECTV”) respectfully requests a grant of special temporary authority (“STA”)<sup>1</sup> for 30 days to conduct in-orbit testing (“IOT”) of the SKY-B1 satellite (Call Sign S2922) at 33° W.L. and to drift the satellite to its authorized location of 43.1° W.L.<sup>2</sup> DIRECTV requests that this special temporary authority commence upon arrival of SKY-B1 at 33° W.L., which is currently anticipated to be on or about February 20, 2017—six days after the satellite’s scheduled launch on February 14, 2017. The IOT period is expected to last approximately 26 days and the drift to 43.1° W.L. is expected to last approximately 10 days.<sup>3</sup>

SKY-B1 payload testing will be performed in the following frequency bands:

- 10.7 – 10.95 GHz, 10.95 – 11.2 GHz, 11.2 – 11.45 GHz, 11.45 – 11.7 GHz, and 11.7 – 12.2 GHz (space-to-Earth);
- 12.75 – 13.25 GHz, 13.75 – 14.0 GHz, and 14.0 – 14.5 GHz (Earth-to-space);
- 18.85-20.2 GHz (space-to-Earth); and
- 28.65-30.0 GHz (Earth-to-space).<sup>4</sup>

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<sup>1</sup> DIRECTV has filed this STA request, an FCC Form 159, and a \$945.00 filing fee electronically via the International Bureau’s Filing System.

<sup>2</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-01158, File No. SAT-AMD-20150806-00054 (May 13, 2016) (Public Notice). During the drift from 33° W.L. to 43.1° W.L., only the satellite’s TT&C frequencies will be utilized.

<sup>3</sup> To the extent necessary, DIRECTV will file a request for extension of special temporary authority to cover any testing or drift period that exceeds 30 days from SKY-B1’s arrival at 33° W.L.

<sup>4</sup> This request for special temporary authority for in-orbit testing of the 18.85-20.2 GHz (space-to-Earth) and 28.65-30.0 GHz (Earth-to-space) frequencies at 33° W.L. is not a request for any grant of market access to the United States in these frequencies. DIRECTV will conduct the in-orbit testing of the Ka-band frequencies at 33° W.L. on a non-interference basis. DIRECTV has reached out to Iridium to discuss this request for special temporary authority. As noted in footnote 2 of the FCC’s grant of authority for the SKY-B1 satellite, operations in the Ka-band frequencies at 43.1° W.L will be subject to the authority of the Telecommunications Regulatory Authority of the United Arab Emirates. See *DIRECTV Enterprises, LLC, Attachment to Grant*, File Nos. SAT-RPL-20140221-00026 and SAT-AMD-20150806-00054 (May 11, 2016).

Telemetry, Tracking, and Command (“TT&C”) services for SKY-B1 will be performed using the following center frequencies:

- 11.443 and 11.4435 GHz or 11.4465 and 11.447 GHz (space-to-Earth); and
- 13.2495 and 14.498 GHz (Earth-to-space).

During the IOT of SKY-B1, DIRECTV will operate in the above-referenced frequency bands. DIRECTV has identified the operational satellites within +/-6 degrees of the IOT location. Coordination is ongoing with several operators of such satellites to resolve potential interference issues. DIRECTV expects to complete coordination discussions before commencing IOT operations. In the unlikely event that harmful interference occurs during IOT, DIRECTV will take all necessary steps to eliminate the interference.

DIRECTV assessed and limited the probability of SKY-B1 becoming a source of debris as a result of collision with large debris or other operational space stations during IOT at 33° W.L. SKY-B1 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, DIRECTV is not aware of any other FCC-licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with SKY-B1 at 33° W.L. In addition, DIRECTV is not aware of any system with an overlapping station-keeping volume with SKY-B1 at 33° W.L. that is the subject of an International Telecommunication Union (“ITU”) filing and that is either in orbit or progressing towards launch.

To the extent necessary, DIRECTV requests that the waivers previously granted to SKY-B1 at 43.1° W.L. be extended to the satellite at 33° W.L. In particular, DIRECTV requests that

the previously granted waiver of footnote NG52 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, be extended as necessary to test the satellite at 33° W.L.<sup>5</sup>

The IOT of SKY-B1's payloads at 33° W.L. is a critical step in ensuring that the satellite will be fully operational at 43.1° W.L. This, in turn, will provide additional capacity to customers at the 43.1° W.L. location, thereby promoting the public interest. Accordingly, DIRECTV respectfully requests that the Commission grant this request.

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<sup>5</sup> See *supra* note 2.