

Request for Special Temporary Authority

Pursuant to Section 25.120(b)(4),¹ DIRECTV Enterprises, LLC (“DIRECTV”) requests special temporary authority (“STA”) for a period of 30 days commencing on June 1, 2016 to deploy a 1.2m transportable Ku-band antenna. The transportable antenna will be used to cover the 2016 COPA America Centenario soccer tournament, which will take place from June 3-26, 2016, across 10 cities in the United States.² Grant of this STA serves the public interest because it will provide necessary capacity for communication of this important sporting event.

The earth station will communicate with the Horizons 1 satellite (call sign S2475) at the 127° W.L. orbital location.³ The earth station will operate on the 14.0-14.5 GHz (uplink) and 11.7-12.2 GHz (downlink) frequencies. The attached technical data provides information on the operating parameters of the earth station.

Grant of this STA is in the public interest because it will enable DIRECTV’s customer to provide enhanced communications for the COPA America Centenario soccer tournament. Moreover, grant of the requested STA will not cause harmful interference to any facilities operating in the Ku-band. The earth station will operate pursuant to routine Ku-band parameters. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth stations, DIRECTV will take all reasonable steps to eliminate the interference.

In light of the above, DIRECTV respectfully requests Commission approval of this STA request.

¹ 47 C.F.R. § 25.120(b)(4).

² The tournament games will be played in Seattle, WA; Chicago, IL; Foxborough, MA; East Rutherford, NJ; Santa Clara, CA; Philadelphia, PA; Pasadena, CA; Glendale, AZ; Houston, TX; and Orlando, FL.

³ *In re Horizons Satellite LLC*, 18 FCC 24745 (Int. Bur. 2003) (adding the Horizons 1 satellite to the Permitted List); *Horizons Satellite LLC Application for Modification of Permitted List Authorization*, 19 FCC Rcd 20349 (Int. Bur. 2004) (authorizing Horizons 1 to provide DTH service to the United States).

Technical Data for Special Temporary Authority Request

Location	CONUS
Manufacturer	Probecom
Antenna Diameter	1.2m
Transmit Frequencies	14.0 – 14.5 GHz
Receive Frequencies	11.7 – 12.2 GHz
Point of Communication	Horizons 1 at 127.0° W.L.
Height Above Ground	1 meter
Antenna Gain Transmit	42.8 dB
Antenna Gain Receive	41.8 dB
Total Input Power at Antenna Flange	69.2 Watts
Total EIRP for All Carriers	61.2 dBW
Transmit Antenna Polarization	Linear V/H
Receive Antenna Polarization	Linear V/H
Maximum Bandwidth	7 MHz
Maximum EIRP Per Carrier	61.2 dBW
Maximum EIRP Density Per Carrier	28.8 dBW/4 kHz
Range of Satellite Arc E/W Limit	127W-127W
Maximum EIRP Density Toward the Horizon	-12.3 dBW/4 kHz ¹
Emission Designator	7M0G7W
Remote Controlled?	No

¹ The maximum EIRP density toward the horizon will depend on the location of the antenna. This measurement was taken under a worst case scenario for the potential locations of the antenna. Specifically, the elevation from Foxborough, MA to the satellite at 127.0° W.L. would be 16.3° and the power density towards the horizon for that elevation angle would be -12.3 dBW/4 kHz.