

## **REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

MCI Communications Services, LLC (Verizon), pursuant to Section 25.120 of the Commission's rules, hereby requests Special Temporary Authority ("STA") to operate a transmit and receive earth station antenna, located at Verizon facility in Westlake, Texas, to conduct testing and a demonstration via LEO 1, a non-geostationary orbit ("NGSO") space station in low earth orbit operated by Telesat. Verizon seeks an STA for the 30-day period beginning on February 1, 2021.

### **Terms of STA Request**

STA operations in Westlake will be limited to two bands, 28.6-29.1 GHz (Earth-to-space) and 18.8-19.3 GHz (space-to-Earth), which the Commission's Ka-band plan allocates on a primary basis to NGSO operations. The technical specifications for these operations are set forth in Attachment 2 hereto, which provides the information that would appear in Schedule B of FCC Form 312, if regular authority were being sought. A radiation hazard study for each earth station is provided in Attachment 3 hereto.

Verizon will conduct one or more demonstrations during the 30-day term of the requested STA. A typical demonstration would consist of one day of set-up and verification; three days of testing and demonstration during which there would be 2-3 passes during the day lasting 6-12 minutes each; and a final day for any remaining tests and for equipment removal.

In accordance with Section 25.120, the earth stations in Westlake will operate on a non-interference basis. The communications to be made under the STA will be used to test and demonstrate certain design features of LEO-1, including antenna tracking, RF performance, and end-to-end network performance. These operations will set the stage for providing highly innovative broadband services in the United States. Grant of Verizon's STA request, therefore, is in the public interest.

**Coordination**

Verizon will coordinate its STA operations with the U.S. federal government under footnote US334 of the United States Table of Frequency Allocations. Ephemeris data will be shared in accordance with Section 25.146(e) of the Commission's rules. With regard to matters of physical coordination, there are no operators using similar orbits.

Accordingly, and for good cause as shown herein, Verizon requests that the Commission grant its STA request.