

Exhibit A

Description of Earth Station Modification

Ligado Networks Subsidiary LLC (“Ligado”) requests authority to modify its 11.3-meter earth station (Antenna ID 11.3M-2) located in Napa, California to add certain Ku band frequencies used for TT&C on the MSAT-2 satellite located at 106.5° W.L. Ligado recently relocated the MSAT-2 satellite from the 103.3° W.L. orbital location to the 106.5° W.L.¹ Ligado intends to make available the Napa earth station (Call Sign E080030) as an additional redundant TT&C station in the United States for MSAT-2 at this new location.² Therefore, grant of this modification is in the public interest because it will allow greater redundancy and reliability for control and command of the MSAT-2 satellite from another U.S. location.

In order to enable TT&C for MSAT-2 from the Napa earth station, Ligado seeks to add the MSAT-2 TT&C frequencies—11.701 GHz, 11.7005 GHz, 14.0005 GHz and 14.4995 GHz—to the existing 11.3 meter antenna. The antenna gain at these frequencies is higher than the currently authorized parameters, but the power levels will be lower and thus within the existing licensed parameters. Ligado has coordinated the use of these frequencies for TT&C operations with co-frequency satellites that are less than two degrees from 106.5° W.L.³ Therefore, the proposed modifications would be compatible with adjacent satellite operators.

In addition, Ligado respectfully requests that the Commission correct the Napa earth station license to reflect the current locations of the MSAT-1 and MSAT-2 satellites. MSAT-1 is authorized to operate at 107.5° W.L., and MSAT-2 is authorized to operate at 106.5° W.L.

No other changes are requested by this modification application.

¹ See File No. SAT-MOD-20180912-00070, Call Sign AMSC-1 (granted Nov. 29, 2018).

² See File No. SAT-MOD-20020107-00013, Call Sign AMSC-1 (granted Aug. 28, 2002) (granting authority to relocate TT&C facilities to Canada on the condition that a redundant TT&C station be available within the United States).

³ See *id.*, Exhibit C at 4-5.