

Purpose for Modification
Application File Number: 0184-EX-CM-2021
8/23/2021

CesiumAstro, Inc. (“Cesium”), licensee of experimental authority under Call Sign WL2XOX, respectfully seeks to modify its experimental license (File Number 1038-EX-CN-2020) for the following purpose:

1. Modify the location of the Austin, TX Cesium Ka-band and S-band ground station antennas

The requested location modification of the Austin, TX ground station antennas is necessary to allow for operation of the antenna systems to communicate with Cesium satellites.

All operations and technical parameters of the mission will remain unchanged and be conducted using the same frequencies, power levels, and restrictions as initially authorized in the experimental license, except for those related to the modification stated above. Per advice from the FCC, this change is reflected in the FCC 442 modification application as added antennas identical in technical performance but with the updated location.

As noted in the original application, these operations are conducted to support the development of Cesium hardware and software through demonstrations of advanced features of technology such as dynamic waveform switching and dynamic link optimization. Cesium acknowledges that operations under this experimental authorization will be performed on a non-interference basis.

Austin, TX S-band and Ka-band Ground Station Location Modification:

Old Location Parameters

Street Address: 13412 Galleria Circle, Austin,
TX 78738
Latitude: 30° 18' 35.5" N
Longitude: 97° 56' 23.5" W
Site Elevation (m): 290

New Location Parameters

Street Address: 13301 Galleria Parkway,
Austin, TX 78738
Latitude: 30° 18' 54.1" N
Longitude: 97° 56' 47.7" W
Site Elevation (m): 297