

From: Kelsie Rutherford

To: Hung Le

Date: August 27, 2021

Subject: Request for Info - File # 1308-EX-ST-2021

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Message:

O3b Limited ("O3b") hereby submits its response to the Commission's request for further information regarding its pending application for Special Temporary Authority. O3b has provided its answer to the Commission's inquiry below:

1. Will the testing between the CGC 5.5-meter antenna and AMC-15 GSO satellite be terminated once the CGC 5.5-meter antenna starts to communicate with O3b NGSO satellite?

Yes, the testing between the first antenna and the AMC-15 GSO satellite will be brief, and will not be needed once the CGC 5.5-meter antenna starts to communicate with O3b NGSO satellites. To be absolutely clear, for communications with the NGSO satellites, we expect to have the permanent NGSO earth station license in place before launch, so that no separate NGSO test authorization would be required.

2. The 28.35-28.6 GHz and 29.25-30.0 GHz (Earth-to-space) frequency bands are primary allocation for GSO FSS systems and secondary allocation for NGSO FSS systems. NGSO operations must not cause harmful interference to GSO networks. Please amend power levels and address how the CGC 5.5-meter antennas' proposed operations will comply with the Section 2.106 and the Commission's Ka-band plan?

Understanding that the test is for communication with a GSO satellite only, AMC-15, it is necessary to amend the power levels? Again, we expect to have the permanent NGSO earth station license in place before launch; we are not here seeking to communicate with the NGSO satellites.

3. There will be 6 CGC 5.5m antennas located at El Mirage, AZ. The input power at antenna flange for each antenna is 500 Watts (see attached Radiation Hazard Analysis in the application under Call Sign E210037). Please address and demonstrate that the total MPE of all 6 antennas will meet the Section 1.1307(b) of the Commission's rules for multiple carriers at site.

The proposed testing will only involve the first antenna to be placed at the site, for testing communications between this first antenna and the AMC-15 GSO satellite. We hope that the demonstration provided in the underlying application for multiple carriers at the Phoenix gateway site (referenced in our narrative) provides sufficient information to demonstrate that the first antenna will meet Section 1.1307(b) of the Commission's rules.