



Attachment A

Purpose of Request for Modification to WE2XBE

This request to modify Viasat's experimental license, callsign WE2XBE, is to support the testing of Viasat's mobile terminals by adding as a point of communication the Kepler Communications Inc. ("Kepler") non-geostationary-satellite orbit (NGSO) satellite network. The Canadian licensed satellite network has been granted U.S market access¹ and has been assigned the callsign S2981.

Viasat's terminal emissions will comply with the conditions stated in paragraph 25 of the Order and Declaratory Ruling. Specifically, Viasat terminals will comply with the following two requirements:

1. Operations in the 14.0-14.5 GHz (Earth-to-space) frequency band are authorized up to the equivalent power-flux density limits of Article 22 of the ITU Radio Regulations.
2. In the 14.47-14.5 GHz band, operations are subject to footnote US342 to the U.S. Table of Frequency Allocations, 47 CFR § 2.106, and all practicable steps must be taken to protect the radio astronomy service from harmful interference.

To protect GSO satellite networks Earth stations transmitting to the Kepler NGSO satellites will maintain a 20° exclusion angle across all latitudes². This minimum separation angle ensures that inline events do not occur.

¹ See Order and Declaratory Ruling, FCC Docket 18-162, IBFS File No. SAT-PDR-20161115-00114

² See IBFS File No. SAT-PDR-20161115-00114, Attachment Technical Narrative page 9