

**RaySat, Inc. – Supplemental Information in Support
Of Request To Modify Experimental License WD2XTB
File No. 0135-EX-ML-2005**

RaySat, Inc. submits the following information to supplement the above-referenced request to modify experimental license WD2XTB:

- 1) The sole requested modification to the experimental license is to add the capability of carrying out a market study. No other modification to the license is requested.
- 2) The required number of terminals for the market study is 90. There are two primary reasons that 90 terminals are required. First, use of 90 terminals is the minimum number to provide a broad enough sample of users, conditions, and applications to result in useful test data. Use of fewer than 90 terminals will not allow for a broad enough cross-section of users and conditions to be of evaluative use. Second, there are a large number of different participants slated for the study, including the U.S. military and other U.S. government agencies, state and local emergency first responder agencies, VSAT service vendors, and recreational vehicle equipment manufacturers. The variety of users is required in order for the system to be tested in a broad range of environments and under a variety of conditions. With the broad range of users, 90 terminals are required in order to provide sufficient units to each participant.
- 4) The market study is required to be carried out on a CONUS basis due to the need to test the platform in a broad range of terrains, elevations, and weather conditions and with a broad test base made up of users in different industries, who by definition will operate in various parts of the country. Limiting the test to particular geographic areas would significantly reduce the effectiveness of the test program.
- 5) As Raysat indicated to the FCC upon OET's review of the original experimental license application, coordination with U.S. government radioastronomy and space exploration users (including NASA and NSF) is not required, as RaySat is not operating in the 14.0–14.2 or 14.45–14.5 bands utilized by these services. RaySat has reserved sufficient capacity on the AMC-5 satellite throughout the experimental license period to ensure that all operations will be outside of these bands.
- 3) Raysat will retrieve all of the terminals from the study participants at the conclusion of the market study.
- 4) Raysat will recover its costs (including space segment airtime costs and other allocable costs) from study participants, but will not charge or receive any profit.