

**NARRATIVE STATEMENT, REQUEST FOR NATIONWIDE
SCOPE, AND REQUEST FOR LIMITED MARKET STUDY**

Narrative Statement. By this application, Trex Enterprises Corporation (“Applicant”) seeks Commission consent for the testing and experimentation of a data communications system using millimeter wave spectrum. In this experiment, Applicant seeks to test transmissions in the 95 GHz band. Applicant wishes to test in the 95 GHz band for both government and private uses.

Government Use. Under the direction of the US Army Space and Missile Defense Command (“SMDC”), Applicant is developing a data link that operates at millimeter wave frequencies to serve as an all-weather back-up system for certain SMDC communications systems. The objective of this experiment is verify the ability to utilize millimeter wave frequencies for data communications in all weather conditions. In addition, the experiment will establish the distances at which communications links may be reliably maintained. The government contact at the SMDC for this project is Terry Bauer at (256) 955-5456.

Private Use. In addition to its work for SMDC, Applicant also wishes to test the viability of millimeter wave spectrum (above 70 GHz) for private commercial operations. In this aspect of the experiment, Trex’s objective is to establish that reliable millimeter wave communications are viable to carry private sector communications in all weather conditions. Applicant particularly wishes to test whether above 70 GHz millimeter wave frequencies are viable for private use high speed wireless data transmissions.

The proposed experiment is important to the public interest. First the experiment will enable Applicant to fulfill its obligation to the SMDC and potentially become part of the nations’ defense systems. As such, the public interest considerations in the grant of the instant application are significant to every American and not easily overstated.

Second, in accordance with Section 5.63 of the Commission’s Rules, this experiment has a reasonable promise of contribution to the development, extension, or expansion, or utilization of the radio art because, heretofore, these ultra high band frequencies have been unusable by the private sector and the use of the frequencies in the manner proposed has not yet been investigated. It should be noted that significant development and testing has already been undertaken with respect to Applicant’s technology and Applicant is confident that its real-world testing will yield positive and fruitful results. If successful, the Commission and the American public may find significant and important uses or spectrum above 70 GHz.

Nationwide Scope. Although the application only specifies Black Mountain, San Diego, California, as a testing site, Applicant intends to test at several locations, including locations in

Hawaii and Alaska. Applicant requests that, pursuant to this application, it be provided with the ability to test anywhere in the United States as long as the appropriate environmental and non-interference requirements, if any, are satisfied. The nationwide scope of the experimental license will permit Applicant to test in different weather scenarios and gain valuable data in different environments.

If the Commission does not believe the experimental license should be granted on a nationwide scope, Applicant requests the opportunity to meet with the Commission to discuss establishing the geographic scope of the experiment.

Limited Market Study. In conjunction with its experimentation regarding the use of above 70 GHz millimeter wave frequencies for private sector wireless data communications, pursuant to Section 5.3(j) and 5.93 of the Commission's Rules, Applicant requests Commission consent to Applicant conducting limited market studies. Such studies will provide invaluable insight and information regarding the use of above 70 GHz millimeter wave frequencies for wireless data transmissions.