QUALCOMM Incorporated (hereinafter referred to as QUALCOMM), was founded in 1985 and specializes in the design, development, manufacture, and service of advanced telecommunications systems for a wide range of consumer, government, and industrial applications. QUALCOMM's headquarters are located in San Diego, California, which is one of the fastest growing technology areas in the United States. QUALCOMM has field offices in many parts of the Unites States, and also in several countries around the world. QUALCOMM's CDMA-based wireless technology is being considered for implementation in a growing list of countries around the world.

A. Applicant's Qualifications:

QUALCOMM is a current FCC licensee for the OmniTRACS system, as well as several Globalstar products. QUALCOMM is a pioneer in the area of wireless communications as well as other high technology fields. It has developed, licensed, and manufactured a wide range of innovative communications systems and products, including fixed- and mobile-satellite communications systems, government communications systems and services, commercial video applications, and VLSI components.

The main thrust of QUALCOMM's efforts over the past few years have been focused on developing, testing and manufacturing the wireless infrastructure and subscriber products for use in terrestrial cellular, PCS, wireless local loop, and low-earth orbit mobile satellite services. The QUALCOMM technology, which has also been licensed to a very large and diverse group of manufacturers worldwide, is based on the application of CDMA technology to the mobile environment with several innovative, patented ideas to achieve high capacity and lower cost. The TIA has adopted its IS-95 digital cellular standard based on the QUALCOMM CDMA technology. The CDMA technologies developed by QUALCOMM for various wireless applications have been documented in the ITU literature. QUALCOMM's CDMA technology has been adopted by several major cellular and PCS service providers around the world. Among these are AirTouch Communications, U.S. West, NYNEX, GTE, Bell Atlantic, Ameritech, Sprint Spectrum, PCS PrimeCo., and NextWave.

B. The Proposed Experiments:

The Globalstar service was launched in January 2000 in the USA and Qualcomm is the technology supplier for this system in the ground segment area (Gateways and User Terminals). As part of Qualcomm's ongoing participation in the Globalstar Program we are developing 2nd Generation products which will handle data as well as voice. In addition to the experimental/prototype User terminals, Qualcomm requests authorization to operate a User Terminal simulator named a "Beam Monitor". A fixed location beam monitor is currently located on a Qualcomm owned building in San Diego and this is to be used to perform measurements on the RF performance parameters of the Gateway and satellite constellation. The tests are intended to validate:

- antenna performance characteristics
- tracking performance characteristics
- transmitter performance characteristics
- receiver performance characteristics
- radiating pattern characteristics
- reliability, maintainability and availability
- Overall Globalstar system performance

C. Conclusion:

Grant of this application will permit Qualcomm to conduct a thorough pre operational validation of the User Terminals and perform thorough Globalstar system level tests in conjunction with the Gateways, user terminals & Satellites constellation. This test program is essential to the

success of the Globalstar network operation and the development of cheaper, smaller and more efficient user terminals.