

PURPOSE OF EXPERIMENTATION

Lockheed Martin Corporation ("Lockheed Martin") hereby seeks experimental authority under Part 5 of the Rules of the Federal Communications Commission to operate a point-to-point system in the E-band (71-76 and 81-86 GHz) frequencies.

While the instant request seeks authority to operate across the full E-band, the transmissions that are the subject of this experimentation will be limited to a N0N carrier operating on a single frequency at any given time.

The E-band modem will explore the environmental effects on short-range E-band point-to-point communications along with tests to explore maximum data rates achievable at E-band frequencies. Primary objectives are the development and test of a highly reliable point-to-point wideband E-band communication system. These experiments will explore maximum data transport concepts at E-band frequencies.

All of the testing will be conducted at a secure Lockheed Martin facility in Sunnyvale, CA, and the company's personnel will be in control of the operations at all times.