

Initial Description

This Experimental license will cover the development, testing and demonstration of experimental and prototype equipment for use in the Part 101 fixed microwave services. It will also cover the demonstration of equipment at customer locations and at trade shows. Ensemble Communications is a manufacturer of such equipment.

The Ensemble product uses Adaptive Time Division Duplexing (TDD) technology, which has been demonstrated to operate successfully in a laboratory environment. Experimental LMDS spectrum will allow Ensemble to validate its technology in the field. Testing will include but not be limited to fade margin measurements, link reliability and availability, various modulation modes, network interoperability, maximum loading, network management and application testing.

Description of this Modification Request

This modification is requested to allow Ensemble Communications to test its point-to-multipoint equipment in two new frequency bands, 24,250 MHz – 24,450 MHz / 25,050 MHz / 25,250 MHz and 38,600 MHz – 40,000 MHz.

Ensemble has been testing its equipment in the 24,250 MHz – 24,450 MHz / 25,050 MHz / 25,250 MHz DEMS band under previously granted STAs (WA9XGR).