

Response to Question 7

Mobile Satellite Ventures Subsidiary LLC (MSV) is licensed to operate a Mobile Satellite Service (MSS) satellite (AMSC-1) in the L-band at 101W. MSV also holds blanket mobile earth terminal (MET) licenses authorizing access to its satellite. MSV seeks an experimental license to test signal processing algorithms used to mitigate co-channel interference. MSV received an experimental STA for this experiment on January 5, 2004 (Call Sign WB9XVQ; File No. 0424-EX-ST-2003). On this date, MSV has sought an extension of this STA (File No. 0244-EX-ST-2004).

This experiment will entail use of a BPSK-modulated L-band carrier signal that will be transmitted over MSV's AMSC-1 satellite from a ground station in Reston, VA. The data rate and EIRP of this carrier does not fall within the technical parameters authorized under MSV's existing blanket MET licenses. MSV is requesting only to conduct its test on frequencies it has already coordinated for its satellite system through the international L-band frequency coordination process.

The purpose of this experiment is to test signal processing algorithms used to mitigate co-channel interference over the AMSC-1 satellite from a ground station in Reston, VA.