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May 14, 1998

VIA HAND DELIVERY

Mr. Douglas Young
Federal Communications Commission
OET/NTDD/ELB
2000 M Street, N.W., Suite 230
Washington, D.C. 20554

Dear Mr. Young:

On behalf of Motorola Satellite Communications, Inc. ("Motorola"), we are writing to amend Motorola's experimental license application, filed on April 2, 1998 and corrected on April 22, 1998, copies enclosed as Attachment A. The purpose of this amendment is to narrow the geographic scope of the relevant testing region to Prescott, Arizona and to provide technical information, which demonstrates that such testing will not cause harmful interference to any authorized spectrum users.

The requested experimental license is necessary for Motorola to collect propagation data at S-band to be used in the development of next generation mobile satellite communication systems.

Motorola hereby seeks to narrow that geographic scope of its original request to Prescott, Arizona. Specifically, Motorola requests authority to broadcast, either from the air or from the ground, within 15 miles of Prescott, Arizona, up to 2 continuous wave (sine wave) carrier frequencies at a time, in the following specific bands: 1990-2011 MHz, 2169-2177 MHz, 2196-2198 MHz. These frequency bands have been chosen to avoid potential interference to licensed microwave stations in the test area. Motorola's test signals are pure sine waves, with bandwidths of approximately 1 kHz. The amplifier output is 40 dbm and the antenna gain is 8 dbm for a total radiated power of 48 dbm.


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Enclosed as Attachment B is data collected by Comsearch regarding licensed microwave stations in the entire state of Arizona for the relevant frequencies -- 1990-2025 MHz and 2160-2200 MHz. In addition to the interference analysis performed by Comsearch, Motorola conducted its own frequency study in and around Prescott, Arizona, with the aid of a spectrum analyzer. Enclosed as Attachment C are the results of this study.

As indicated in our initial application, we would appreciate expedited action on this request, now amended, so that Motorola can continue with its experimental testing program. Should you have any further questions or require additional information, please do not hesitate to contact the undersigned, or Richard Astrom of Motorola at (602) 675-1522, or Ken Ryan of Comsearch at (703) 476-2685.

Thank you for your prompt attention to this matter.

Respectfully submitted,



Tekedra V. McGee
Counsel for Motorola Satellite
Communications, Inc.

Enclosures
