

## 0053-EX-ML-2003

### EXHIBIT B

SpaceQuest requests the experimental use of four VHF channels in the amateur radio frequency band (Part 97) to communicate with two foreign satellite networks in order to complete flight software development and testing work, and to evaluate the performance of SpaceQuest's VHF satellite receivers currently operating on SaudiSat-1A, SaudiSat-1B, LatinSat-1 and LatinSat-2. These developmental satellites are designed for dual use as amateur radio satellites operating in the amateur band and as commercial satellites operating on commercial satellite frequencies. The purpose for requesting the experimental use of the VHF amateur frequency channels on these satellites is to upload new flight code so that the satellites can perform their missions more effectively. The amateur radio frequencies requested for experimental use will not be used for commercial purposes, but only for the development and upload of new flight code because the satellite commercial receivers originally intended for this purpose are unable to contend with the high levels of interference in the 455 MHz uplink band.

The AARL/AMSAT VHF Band Plan assigns the band segment from 145.80 MHz to 146.00 MHz exclusively for amateur radio satellite services (OSCAR band). The ARRL Repeater Directory confirms that there are no land-based repeater stations operating in this band.

SpaceQuest has coordinated the use of the four requested VHF frequency channels (145.84 MHz, 145.86 MHz, 145.92 MHz, and 145.96 MHz) with Mr. James White, the AMSAT command station operator, and reviewed other data sources to avoid the possibility of interference with any amateur satellites authorized to operate in the selected channels. Currently, SaudiSat-1A (SO-41) receives on 145.920 MHz, SaudiSat-1B (SO-42) receives on 145.960 MHz, LatinSat-1 receives on 145.840 MHz, and LatinSat-2 receives on 145.860 MHz. These are the satellites and frequencies that SpaceQuest intends to use for experimental purposes as authorized by the satellite owners.

The only active satellite (other than the SaudiSats and the LatinSats) operating in the requested bands is AO-7, a 20-year old amateur satellite that recently came back to life and has very little use. To insure that no interference occurs with amateur satellite operations, SpaceQuest will coordinate its experimental use of the requested frequency so that it does not operate its ground transmitter when AO-7 is in view of its antenna. All SpaceQuest station operators hold amateur radio licenses and are actively involved with the AMSAT community. SpaceQuest will maintain active communications with the AMSAT coordinator in order to avoid interfering with any new amateur radio satellites that may be launched during the experimental test period.