

JAN 28 1998

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January 28, 1998

VIA HAND DELIVERY

Mr. Douglas A. Young
Federal Communications Commission
Office of Engineering & Technology
Experimental Licensing Branch
2000 M Street, N.W., Suite 230
Mail Stop 1300 - C1
Washington, D.C. 20554

Re: Final Analysis Inc., Progress Report for Experimental Little LEO Satellite Program -- FAISAT-2v Satellite (Call Sign KS2XCY, File No. 4682-EX-R-97); Lanham, Maryland Ground Station (Call Sign WA2XHE, File No. 5582-EX-PL-97); Logan, Utah Ground Station (Call Sign KS2XDA, File No. 4684-EX-RR-97); and Remote Terminals (Call Sign KS2XCZ, File No. 4683-EX-R-97)

Dear Mr. Young:

In accordance with its above-referenced authorizations, Final Analysis Inc. ("Final Analysis"), by its attorneys, hereby submits this progress report on its experimental non-voice, non-geostationary mobile satellite service ("NVNG MSS" or "Little LEO") program.

On September 23, 1997, Final Analysis's experimental Little LEO satellite, FAISAT-2v, was successfully launched from Russia. Since the launch of FAISAT-2v, Final Analysis's technical staff has been actively engaged in monitoring and telemetry, tracking & control ("TT&C") of the satellite to ensure that it enters into proper orbital operation. Final Analysis has maintained full contact with the satellite to address early orbit issues directly from its main ground station and control center at the company headquarters in Lanham, Maryland, and remotely through its ground stations in Logan, Utah and Andoya, Norway.

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After launch of the FAISAT-2v in September the initial early orbit operations of the satellite were within normal parameters. Data was regularly downloaded during satellite passes, although the Final Analysis staff was primarily engaged in early orbit operations, *i.e.*, fine tuning of the satellite's orbital stability, components, and other operational parameters. These stabilizing activities were not complete when, on October 24, 1997, the satellite entered solar eclipse and began to expend more energy than could be generated by its solar panels given the satellite's orientation to the sun during eclipse. In anticipation of energy deficit situations which might occur during normal satellite operations, the satellite command software was originally programmed to shut the satellite down during defined energy deficit situations. The satellite performed as programmed and shut down, preventing further ground communication, and consequent energy drain, during the eclipse period. At the beginning of the year when the satellite re-entered full sun mode, the batteries recharged. Final Analysis made communication contact with the satellite, and has been in communication with it since. Data has been again regularly downloaded from the satellite, and all components, including radios, batteries, antennas, and the on-board processor, are working within normal parameters.

Subsequent to resuming satellite-ground communication, Final Analysis staff has been attempting to complete early orbit operations, including stabilizing the satellite's orbit and fine tuning its other operational parameters. It is Final Analysis's intention to upload new software to modify the spacecraft's energy use during routine operations and hopefully prevent future energy deficits during eclipse mode. However, since early orbit operations have not been completed, the software modification has not been uploaded and the satellite is now re-entering its second eclipse season.

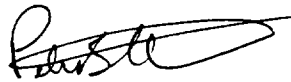
With respect to the primary phase of the experiment, Final Analysis has been conducting multiple scans of a variety of VHF and UHF bands, including the 455-456 MHz band allocated to Little LEOS internationally at WRC-95, from FAISAT-2v. Final Analysis anticipates that these multiple scanning operations will help collect data on the comparative levels of noise from existing operations in the observed bands and accurately measure the feasibility of conducting Little LEO operations in these bands on a time-shared basis with existing operations.

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The original and two copies of this progress report are being filed herewith. In addition, in accordance with the conditions of Final Analysis's experimental authorizations, a copy of this progress report is being filed with the Wireless Telecommunications Bureau. Please do not hesitate to call the undersigned counsel at the above-referenced number if you should have any questions regarding this matter.

Respectfully submitted,



Peter A. Batacan
Counsel to Final Analysis Inc.

cc: Mr. Dan Phythyon,
Chief, Wireless Telecommunications Bureau (via hand delivery)