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March 2, 1999

BY 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 made initial full contact with the satellite during early orbit 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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The purpose of the experimental satellite is to permit Final Analysis to conduct multiple scans of a variety of VHF and UHF bands, including the 454-456 and 459-460 MHz bands allocated to Little LEOs internationally at WRC-95 and WRC-97, 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.

After launch of the FAISAT-2v in September the initial early orbit operations of the satellite were within normal parameters. Data were 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 into its first 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 1998 when the satellite re-entered full sun mode, the batteries recharged. Final made limited communication contact with the satellite. However, the satellite operations could not be improved during the full sun mode, and the satellite continues to shut down again during eclipse periods.

Since resuming limited satellite-ground communications, Final Analysis has repeatedly tried to complete early orbit operations, including stabilizing the satellite's orbit and fine tuning its other operational parameters.¹ It was, and still 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, Final Analysis has not been able to complete early orbit operations or upload the software modification. Consequently, Final Analysis has continued to encounter operational difficulties and the satellite-ground communication is limited because FAISAT-2v shuts down and becomes inoperable during eclipse seasons. FAISAT-2v has recently entered another full sun mode, and Final Analysis has received special temporary authority to attempt once again to upload the software modification.

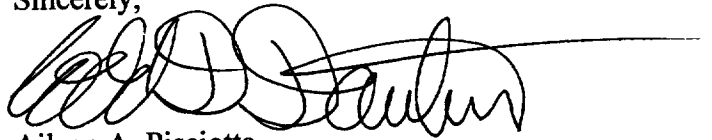
¹ Final Analysis has received special temporary authority to perform TT&C on the 148.7 MHz frequency. See Final Analysis STAs, Experimental Call Signs WA2XHE (File Nos. S-3064-EX-97 & S-3150-EX-97); and WA8XHE (File Nos. S-3329-EX-98 & 0072-EX-ST-1999).

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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.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd D. Daubert", with a long horizontal line extending to the right.

Aileen A. Pisciotta
Todd D. Daubert
Counsel to Final Analysis Inc.

cc: Mr. Thomas J. Sugrue,
Chief, Wireless Telecommunications Bureau (by hand delivery)