

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL
(Nature of Service)

W A 2 X H E
(Call Sign)

XD FX
(Class of station)

S-3064-EX-97
(File number)

NAME Final Analysis, Inc.
9701-E Philadelphia Court, Lanham, MD - NL 38-57-39; WL 076-50-19
(Location of station)

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

Frequency (MHz)	Authorized Power (watts)	Emission Designator
148.7	200 (ERP)	100KF1D

Purpose of Operation: Telemetry, tracking and control of FAISAT-2V experimental satellite from Lanham ground station.

Special Condition: Transmissions shall be limited in number and duration to those described in the application.

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective September 25, 1997 and
will expire 3:00 A.M. EST. October 25, 1997



ORIGINAL

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SEP 24 1997

KELLEY DRYE & WARREN LLP

A LIMITED LIABILITY PARTNERSHIP INCLUDING PROFESSIONAL ASSOCIATIONS

1200 19TH STREET, N.W.

SUITE 500

WASHINGTON, D. C. 20036

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NEW DELHI, INDIA

TOKYO, JAPAN

September 24, 1997

VIA HAND-DELIVERY

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

*Re: Final Analysis Inc. -- Request for Emergency Special Temporary
Operating Authority on Frequency 148.7 MHz from Experimental
Satellite Ground Station in Lanham, MD (Call Sign WA2XHE; File No.
5582-EX-PL-97) -- EXPEDITED ACTION REQUESTED*

Dear Mr. Young:

Pursuant to Section 309(f) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(f), and Section 5.56 of the Commission's rules, 47 C.F.R. § 5.56, Final Analysis Inc. ("Final Analysis"), by its attorneys, hereby submits its emergency request for special temporary operating authority to use the 148.7 MHz frequency, on the emergency basis as defined herein for a limited four-week period from the date of grant of the STA, for telemetry, tracking & control ("TT&C") operations between its above-referenced ground station and its experimental Little LEO satellite FAISAT-2v. For the reasons discussed below and in light of the emergency nature of this STA request, expedited grant of this request is in the public interest, convenience and necessity.¹

¹ Due to the emergency nature of this STA request, this advance copy of the STA request is being filed directly with the Office of Engineering and Technology for expedited action. The original STA request will subsequently be filed with the appropriate fee and transmittal forms through the FCC's Mellon Bank in Pittsburgh.

I. AN EMERGENCY STA TO OPERATE ON FREQUENCY 148.7 MHz FOR NO MORE THAN A TOTAL OF THREE MINUTES PER DAY FOR THE NEXT FOUR WEEKS IS NECESSARY TO ALLOW FINAL ANALYSIS TO CONDUCT MONITORING AND TT&C OF FAISAT-2v's ORBITAL OPERATION FROM ITS LANHAM CONTROL CENTER

On September 23, 1997 at approximately 8:45 p.m. Moscow time (12:45 p.m. Washington, D.C. time), FAISAT-2v was launched as a secondary payload aboard a Cosmos rocket from the Cosmodrome in Plesetsk, Russia. Final Analysis's technical staff at its Lanham headquarters and main ground station are now actively engaged in monitoring and TT&C of the satellite to ensure that it enters into proper operational condition. TT&C communications with the satellite must be performed on the 148.7 MHz frequency. Final Analysis's technical staff in Lanham is currently conducting TT&C with FAISAT-2v remotely through telephone modem uplinks to its two other experimental ground stations in Logan, Utah and Andoya, Norway, where it is authorized to use the 148.7 MHz frequency.² Nevertheless, to the extent that these remote telephone modem links are inherently subject to potential and unforeseeable interruptions, special temporary authority is necessary to use the 148.7 MHz frequency for a TT&C communication link to FAISAT-2v on a limited, emergency basis from the Lanham headquarters. Availability of the 148.7 MHz frequency for TT&C at the Lanham ground station on an emergency STA basis is especially critical during this early phase of the FAISAT-2v mission in order to ensure that the satellite enters into its proper orbit. Accordingly, Final Analysis requests an emergency STA to conduct communications with FAISAT-2v from its Lanham ground station on frequency 148.7 MHz for a four-week period from the date of grant of the STA and limited to a portion (5%) of each of four (4) 15 minute passes each day when FAISAT 2v is in view of the Lanham ground station not to exceed a total of 3 minutes each day.

II. SPECIFIC INFORMATION REQUIRED BY SECTION 5.56 OF THE RULES

1) Name and Address: Final Analysis Inc., 9701-E Philadelphia Way,
Lanham, MD, 20706.

² Due to congestion in the 148.7 MHz frequency in the Washington, D.C. area, however, Final Analysis has been unable previously to obtain experimental authority to conduct communications on that frequency from its Lanham ground station.

2) Need for Special Action: To conduct TT&C from Lanham ground station and headquarters on frequency 148.7 MHz to monitor FAISAT 2-v satellite's orbital pattern during initial four-week phase of mission.

3) Type of Operation to be Conducted: Telemetry, tracking and control of experimental Little LEO satellite from Lanham ground station.

4) Purpose of Operation: *Same as above*

5) Time and Date of Proposed Operation: For a four-week period from date of grant of STA. Operations on 148.7 MHz will be limited to 5 percent of each of four (4) 15 minute passes per day when FAISAT-2v is in view of the Lanham ground station not to exceed a total of three minutes per day.

6) Class of Station, Call Sign, Nature of Service: Experimental Ground Station for Experimental Little LEO satellite program; Call Sign WA2XHE; Experimental Satellite Service.

7) Location of Proposed Operation: Final Analysis Inc., 9701-E Philadelphia Court, Lanham, MD (north latitude 38-57-39; west longitude 76-50-19)

8) Equipment: Experimental Ground Station Transmitter (1 unit).

9) Frequencies: 148.7 MHz

10) Effective Radiated Power: 20w maximum RF output power at transmitter terminal; 200W maximum effective radiated power from the antenna.

11) Type of Emission: 100KF1D

12) Overall Height Above Ground of Antenna Structure: The antenna is mounted on an existing building and will not extend more than 6 meters above the building. *See* Final Analysis Inc., Initial Application for Lanham Experimental Ground Station on FCC Form 442, dated November 13, 1996 at Item 15.

As required by Section 5.54 of the Rules, 47 C.F.R. § 5.54, the signature and certification of an officer of Final Analysis is attached hereto.

Mr. Douglas A. Young
September 24, 1997
Page 4

III. CONCLUSION

For the foregoing reasons, Final Analysis urges the Commission to expeditiously grant this emergency STA request to allow it to operate on the 148.7 MHz frequency for a four-week period under the limited terms described above for TT&C between its Lanham ground station and the FAISAT-2v Little LEO satellite.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'P. Batacan', followed by a long horizontal line extending to the right.

Peter A. Batacan
Counsel to Final Analysis Inc.

cc: Mr Frank Wright (via hand-delivery)

Attachment: Final Analysis signature and certification page

OK By HFW
By
9/25/97

SIGNATURE AND CERTIFICATION OF APPLICANT

On behalf of Final Analysis Inc., and in accordance with Sections 5.54-5.56 of the Commission's rules, 47 C.F.R. §§ 5.54-5.56, I hereby certify that the statements in the foregoing Request for Emergency Special Temporary Operating Authority are true, complete and correct to the best of my knowledge. I also hereby certify, in accordance with Sections 1.2001-1.2003 of the Commission's rules, 47 C.F.R. §§ 1.2001-1.2003, that no party to this application is subject to a denial of federal benefits, including FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862(a).

FINAL ANALYSIS INC.

By:


Michael H. Ahan
Executive Vice President

Dated:

9/24/97

SEP-24-1997 14:41

** TOTAL PAGE.06 **
P.06

SEP 24 '97 16:18

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TOTAL P.02
PAGE.02

S-3064-EX-97

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TOKYO, JAPAN

September 24, 1997

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

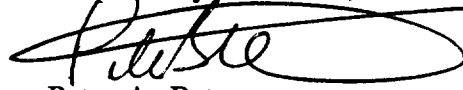
*Re: Final Analysis Inc. -- Request for Emergency Special Temporary
Authority on Frequency 148.7 MHz from Experimental Satellite Ground
Station in Lanham, MD (Call Sign WA2XHE; File No. 5582-EX-PL-97)
-- EXPEDITED ACTION REQUESTED*

To Whom It May Concern:

Final Analysis Inc., by its attorneys, hereby submits the enclosed request for an emergency STA with respect to its above-referenced experimental satellite ground station. The original and two copies of this request are enclosed with this filing. Also included with this filing is a check made out to the Federal Communications Commission in the amount of \$45.00 for the appropriate fee (FCC Fee Code EAE) and FCC Form 159 (Remittance Advice).

Please do not hesitate to contact the undersigned at the above-referenced number if you have any questions regarding this matter.

Respectfully submitted,


Peter A. Batacan
Counsel to Final Analysis Inc.

Enclosures



FAX COVER SHEET

Page 1 of 2 pages

DATE: September 25, 1997

FROM: Douglas A. Young 1300 - E1
FEDERAL COMMUNICATIONS COMMISSION
Experimental Licensing Branch
2000 M Street, Suite 230
Washington, DC 20554

PHONE: (202) 418-2440

FAX: (202) 418-1918

TO: Mr. Peter Batacan
NAME

Kelley Drye & Warren LLP
COMPANY

(202) 955 - 9774
PHONE

(202) 955 - 9792
FAX

Mr. Batacan:
Here is a copy of Final Analysis Inc.'s STA for station WA2XHE,
File Number S-3064-EX-97. The original license will be mailed
to the licensee upon receipt of the original application.

Doug Young

ORIGINAL RECEIVED

KELLEY DRYE & WARREN LLP

A LIMITED LIABILITY PARTNERSHIP INCLUDING PROFESSIONAL ASSOCIATIONS

SEP 18 1997

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September 18, 1997

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:

Pursuant to its experimental non-voice, non-geostationary mobile satellite service ("NVNG MSS" or "Little LEO") authorizations for the above-referenced call signs, Final Analysis Inc. ("Final Analysis"), by its attorneys, hereby submits this special progress report on its Experimental Satellite Program. Final Analysis hereby notifies the Commission of the imminent launch of its experimental Little LEO satellite FAISAT-2v.

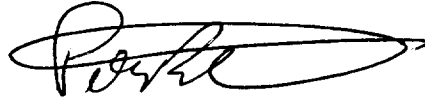
Absent unforeseen circumstances beyond Final Analysis's control such as a precipitous change in weather conditions, the preparedness of the primary satellite payload or similar emergency, FAISAT-2v is scheduled to be launched as a secondary payload aboard a Cosmos rocket from the Cosmodrome in Plesetsk, Russia on Tuesday September 23rd at approximately 8:45 p.m. Moscow time (12:45 p.m. Washington, D.C. time).

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

Mr. Douglas A. Young
September 18, 1997
Page 2

authorizations, a copy of this progress report is being filed with the Wireless Telecommunications Bureau. Please do not hesitate to contact the undersigned counsel at the above-referenced number if you should have any questions regarding this matter.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "P. Batacan", enclosed within a large, horizontal, oval-shaped flourish.

Peter A. Batacan
Counsel to Final Analysis Inc.

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