

FCC 405Federal Communications Commission
Washington, DC 20554Approved by OMB
3060-0093
See instructions for
burden statement.**FCC USE ONLY****APPLICATION FOR RENEWAL OF RADIO STATION LICENSE
IN SPECIFIED SERVICES (47 CFR Parts 5, 21, 22, 23, 25 and 101)**

0224-EX-RR-1999

File Number

~~4682-EX-R-97~~

Call Sign

KS2XCY

Service

Experimental

Class of Station

XD MO

READ INSTRUCTIONS AND NOTICE ON REVERSE BEFORE COMPLETING

1. Name of Applicant (must be identical with that shown on current authorization)

Final Analysis, Inc.

Mailing Street Address, P.O. Box, City, State and ZIP Code of Applicant

9701-E Philadelphia Court; Lanham, MD 20706-4400

Internet Address

(Area Code) Telephone Number
(301)459-4100Call Sign or Other FCC Identifier
KS2XCYIdentify Rulepart under which this
filing is made:

47 C.F.R. Part 5

2. FEE DATA (Refer to 47 CFR Section 1.1105 or to appropriate Fee Filing Guide for Information)

(a) Fee Type Code

EAE

(b) Fee Multiple

1

(c) Fee Due for Fee Type Code in 2(a)

\$45.00

FOR FCC USE ONLY

3. Application is for renewal of license in exact conformity with the existing license as specified below:

(a) File Number

4682-EX-R-97

(b) Date Issued

08/01/97

(c) Call Sign

KS2XCY

(d) Location Little LEO Satellite area of oper-
ation: Apogee 1000 KM; Perigee 1000 KM

(e) Nature of Service

Experimental

(f) Class of Station

XD MO

(g) Expiration Date

08/01/99

4. Note any changes which have been made since the last application covering this station was filed (i.e. discontinuance of use of a frequency, type of emission, transmitter, etc.)

See showing of need for renewal attached hereto.

5. Items 5(a) and (b) apply to Part 21 and Part 101 licensees only.

5(a) Has there been removal of equipment or alteration of facilities so as to render the
station not operational? If YES, indicate when: _____☐ YES☐ NO(b) If this is a Multipoint Distribution Service (MDS) station, is there an ownership interest
in, control by, affiliation with, or leasing arrangement with a cable television company?☐ YES☐ NO

6. Applicant represents that there has been no change in applicant's organization and no transfer of control or changes in the applicant's relation to the station or financial responsibility; that the applicant's most recent application or report embodying this information, as identified below, is to be considered as a part of this application, and the truth statements therein contained is hereby reaffirmed. Note here any further exceptions not already covered in questions 4 and 5.

File Number: 0142-EX-RR-1999

Date: 03/31/99

7. CERTIFICATION

- Neither the applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance.
- The applicant hereby waives any claim to the use of any particular frequency or electromagnetic spectrum as against the regulatory power of the United States because of the previous use of same, whether by license or otherwise, and requests authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)
- The applicant acknowledges that all statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in this application; undersigned certifies that all statements in this application are true, complete and correct to the best of his/her knowledge and belief and are made in good faith.
- Applicant certifies that construction of the station would NOT be an action which is likely to have a significant environmental effect. See the Commission's Rules 47 CFR 1.1301 - 1.1319.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Name of Applicant (must correspond with Item 1)
Final Analysis, Inc.Title of Applicant
N.A.

SIGNATURE

Michael H. Aho

DATE

7/23/99

Designate appropriate classification:

☐ Individual☐ Member of
Partnership☒ Officer & Member of
Applicant's Association☐ Authorized Rep.
of Corporation☐ Official of
Government
Entity

DEMONSTRATION OF NEED

Final Analysis, Inc. ("Final Analysis") respectfully submits this showing of need in support of the foregoing application for renewal of the experimental radio station authorization for its Little LEO satellite ("FAISAT-2v"), call sign KS2XCY (File No. 4682-EX-R-97), which was successfully launched from Russia on September 23, 1997.¹ The current authorization is scheduled to expire on August 1, 1999.

The purpose of the experimental satellite program 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.

As Final Analysis explained in the progress report it filed on March 2, 1999, Final Analysis has encountered, and continues to encounter, operational difficulties with the FAISAT-2v related to on-board energy deficits during eclipse periods.² Final Analysis continues to

¹ Final Analysis is simultaneously filing applications for renewal of its experimental radio station licenses for its ground station in Logan, Utah, call sign KS2XDA (File No. 4684-EX-RR-97) and its 350 remote user terminals, call sign KS2XCZ (File No. 4683-EX-R-97). On March 31, 1999, Final Analysis filed for renewal of its experimental radio station license for the ground station at its corporate headquarters in Lanham, Maryland, call sign WA2XHE (File No. 0142-EX-RR-1999).

² 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); WA8XHE (File No. S-3329-EX-98).

attempt to communicate with the satellite in order to fulfill its experimental program's purpose. This program involves the participation of 13 nations around the world and has had the full support and participation of the FCC International Bureau staff. If successful, the experimental program will be important to the success of the Little LEO industry by demonstrating the feasibility of spectrum sharing. Final Analysis urges the Commission to grant this renewal request so that these purposes can be achieved.