

FCC 405Federal Communications Commission
Washington, DC 20554Approved by OMB
3080-0093
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)**File Number
0142-EX-RR-1999Call Sign
WA2XHE

Service

Class of Station

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
WA2XHEIdentify 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

(b) Fee Multiple

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

FOR FCC USE ONLY

EAE

1

45.00

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

(a) File Number

5582-EX-PL-97

(b) Date Issued

4/10/97

(c) Call Sign

WA2XHE

(d) Location

Lanham, MD NL38-57-39; WL076-50-19

(e) Nature of Service

Experimental

(f) Class of Station

XD FX

(g) Expiration Date

4/1/99

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: 0072-EX-ST-1999

Date: 2/19/99

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

DATE

3/29/99

Designate appropriate classification:



Individual

Member of
PartnershipOfficer & Member of
Applicant's AssociationAuthorized Rep.
of CorporationOfficial of
Government
Entity

ATTACHMENT

Final Analysis, Inc. ("Final Analysis") respectfully submits this showing of need in support of the foregoing application for renewal of its experimental radio station authorization call sign WA2XHE (File No 5582-EX-PL-97). The current authorization is scheduled to expire on April 1, 1999. The transmitting facilities associated with this authorization are situated at the company's headquarters in Lanham, Maryland (hereinafter, the "Lanham main ground station"). The Lanham main ground station facility is essential to Final Analysis's overall experimental satellite program because it provides telemetry, tracking and control ("TT&C") of Final Analysis's experimental satellite FAISAT-2v, which was launched into low earth orbit in 1997.¹

The purpose of Final Analysis's experimental satellite program is to employ FAISAT-2v to conduct real-world studies of frequency-sharing in the non-voice, non-geostationary mobile satellite service ("NVNG MSS" or "Little LEO") and the potential effects of NVNG MSS operations on other radiofrequency users. At least for the next two years, the experimental data generated by FAISAT-2v's operation will continue to be important in facilitating the development of radiofrequency standards for commercial Little LEO service operations. Accordingly, there is adequate need for a two-year renewal of the Lanham ground station experimental authorization.

¹ See Final Analysis Experimental Radio Station Authorization, Call Sign KS2XCY (File No. 4682-EX-R-97).