

26 January, 1999

Federal Communications Commission  
Experimental Radio Service  
P. O. Box 358320  
Fee Code EAE  
Pittsburgh, PA 15251-5320

Dear Sir/Ma'am:

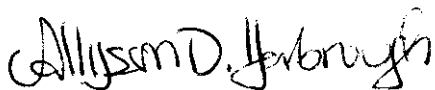
The purpose of this letter is to request a Special Temporary Authority for operation of a short-term, satellite communications research experiment. As required by the Experimental Licensing Branch, the attached Exhibit and Figures outline the nature of the experiment and why an STA is believed to be necessary. I have also attached a completed Form 159, Fee Remittance Advice and the \$45 fee.

We wish to secure authorization by 15 April, 1999. I would be pleased to promptly address any questions or clarification required to facilitate processing of this STA request. My contact information is provided below.

Allyson D. Yarbrough, PhD  
The Aerospace Corporation  
2350 E. El Segundo Blvd.  
Mail Station M1-111  
El Segundo, CA 90245  
310-336-1499 (ph)  
310-336-6225 (fax)  
allyson.d.yarbrough@notes.aero.org

Thank you in advance for your assistance.

Respectfully,



Allyson D. Yarbrough

Enclosures:

1. Exhibit, including figures
2. Form 159
3. Application for Special Temporary Authority
4. Check No. 20001242432 in the amount of \$45

You will be presented with the FCC FORM 159, Fee Remittance Advice after submitting your application and obtaining a confirmation number. This Fee Remittance Advice, FCC Form 159, must currently be submitted in paper form along with payment to the address indicated in the FCC Fee Filing Guide. Electronic submission of FCC Form 159 is not currently available.

**FEDERAL COMMUNICATIONS COMMISSION**  
**APPLICATION FOR SPECIAL TEMPORARY AUTHORITY**  
This request for Special Temporary Authority (STA) is for a New STA

**1. Name of Applicant: \***

Allyson D. Yarbrough c/o The Aerospace Corporation

**2. Mailing Address:****Attention: \***

Allyson D. Yarbrough

**Street Address: \***

2350 E. El Segundo Blvd.

**P.O. Box:**

P.O. Box 92957

**City: \***

El Segundo, CA

**State: \*****Zip Code: \***

90245

**E-Mail Address:**

allyson.d.yarbrough@aero.org

**3. Give the following information of person who can best handle inquiries pertaining to this application:****\* Last Name:**

Yarbrough

**\* First Name:**

Allyson

**\* Title:****\* Phone Number (include area code):**

310-336-1499

**E-Mail Address:**

allyson.d.yarbrough@aero.org

**4. Please explain in the area below why an STA is necessary: \***

This application concerns a short-lived research project utilizing earth-space, space-space, and space-earth satellite links. The experimental nature and anticipated three-week operation suggest that an STA is most appropriate.

**5. Please explain the purpose of operation: \***

The purpose of operation is to conduct research regarding feasibility of very small satellites, emerging microelectromechanical systems (MEMS) technologies in space and the effect of the space environment on microelectronics.

**6. Call Sign: Class of Station: Nature of Service:**  
**EXPERIMENTAL****7. Location of proposed operation: \***

SRI, International, Palo Alto, CA

Operation Start Date: \* Operation End Date: \*

1 Sept 99

1 Nov 99

**8. List below transmitting equipment to be installed (if experimental, so state):**

| MANUFACTURER | MODEL NUMBER | NO. OF UNITS | EXPERIMENTAL?                                                            |
|--------------|--------------|--------------|--------------------------------------------------------------------------|
| Rockwell     | 915 DCT      | 1            | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No |
|              |              |              | <input type="radio"/> Yes <input type="radio"/> No                       |
|              |              |              | <input type="radio"/> Yes <input type="radio"/> No                       |
|              |              |              | <input type="radio"/> Yes <input type="radio"/> No                       |
|              |              |              | <input type="radio"/> Yes <input type="radio"/> No                       |

Radio

**9. 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 the 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 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.

Signature of Applicant (must correspond with item 1)\*

Date

01/26/1999



Title of Applicant (if any)

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).

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*Mail your comments or suggestions (To: [ELB@fcc.gov](mailto:ELB@fcc.gov))*  
FCC - Federal Communications Commission - FCC\_STA