

**STANFORD
TELECOM**

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16 June 1998

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

Re: Request of Stanford Telecom for Special Temporary Authority (STA) to
Test an S-Band Digital Audio Radio Service Three-Transmitter Network in
the Experimental Radio Service for a Period of Four (4) Months

Dear FCC Representative:

Stanford Telecom hereby respectfully requests Special Temporary Authority (STA) to test a three-transmitter network in the S-Band that will demonstrate a Stanford Telecom designed system providing Digital Audio Radio Service (DARS). The testing will commence on 15 August 1998 and will continue until 15 December 1998. The applicant, Stanford Telecom, is a publicly-traded company incorporated under the laws of the state of Delaware. The applicant, whose address is listed at the top of this letter, will be the owner and operator of the transmitters. We have enclosed FCC Form 159 and a \$45 check to cover the requisite filing fee.

Stanford Telecom seeks authority to conduct testing of a proof-of-concept terrestrial network applicable for augmenting an S-Band satellite DARS system operating in the United States. Specifically, the experimental system will be comprised of transmitters operating in the 2332.5 - 2345 MHz band in the Washington, DC area. Washington, DC was selected due to its convenient location to our facilities in Reston, VA and because of its mix of urban and suburban environments, which both present challenges for the signal propagation and system operation.

Under contract with American Mobile Radio Corporation (AMRC), the DARS satellite licensee for the auctioned frequency band (2332.5 - 2345 MHz), Stanford Telecom is developing the terrestrial repeater segment of the AMRC DARS system that is expected to initiate operations in the year 2000. In order to meet this operational date, Stanford Telecom must test equipment beginning in two months to further the development process and to ensure that the proof-of-concept system works effectively. Consequently, Stanford Telecom plans to conduct an initial series of tests from August 1998 to December 1998. With this request, we are seeking a four (4) month Special Temporary Authority (STA) for the dates 15 August 1998 to 15 December 1998.

The following Exhibits to this letter provide operational and technical details of the transmitters required for filing this STA:

Exhibit A. Experiment Objectives & Operations

Exhibit B. Transmitter Locations

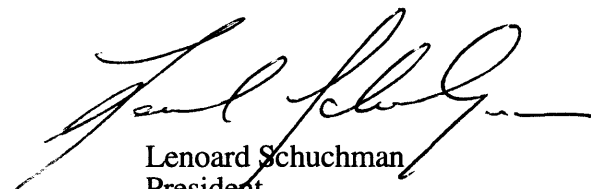
Exhibit C. Transmitter Technical Parameters

This Exhibit provides detailed information concerning the technical parameters of the transmitters. Information includes frequency, EIRP, and modulation of the proposed signals. Product sheets and measured performance of components are also included.

Stanford Telecom recognizes that, although the FCC has allocated the 2332.5 - 2345 MHz band to DARS, some non-DARS systems may still operate in this band. We believe, however, that conducting tests in this band can be accomplished without interference to existing systems. Stanford Telecom is willing to work with any organizations operating existing systems to assure protection of these systems and to allow timely testing of our equipment.

Stanford Telecom requests authority to test an S-Band system solely for the purpose of demonstrating new techniques and technologies and for furthering the radio art. Please contact William Horne, lead systems engineer (contact information below), if you have any questions or if we can provide you with any additional information regarding this STA request.

Sincerely,



Lenoard Schuchman
President
Communications and Navigation
Systems (CNS)



William Horne
Lead Systems Engineer
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