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**VIA HAND DELIVERY**

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

**Re: Worldwave Communications, Inc., File No. \_\_\_\_\_ - FCC Form 442  
Application for New Experimental Authorization Under Part 5 of FCC  
Rules for Nebraska, Colorado**

Dear Madam or Sir:

On behalf of Worldwave Communications, Inc., we hereby submit an application for an experimental radio service license.

Enclosed with this application is a check payable to the Federal Communications Commission in the amount of \$45.00 to cover the filing fee. In addition, please note that Attachment D to Exhibit No. 1 provides answers to the requested information under Item No. 4 of FCC Form 442, "Particulars of Operation." **We respectfully request that Attachment D continue to receive confidential treatment by the Commission.**

Pursuant to FCC Rule § 5.201 and on behalf of Worldwave Communications, Inc. ("Worldwave"), we hereby request approval of an experimental license application filed by Worldwave to conduct field testing of a wireless local loop ("WLL") communications

*w/d w/lt public  
attached*

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system in the 2.4 - 2.4835 GHz Industrial, Scientific and Medical ("ISM") band. The call sign for this system is KS2XAW.

On August 18, 1997 and February 18, 1998, respectively, the Commission granted Special Temporary Authority ("STA"), File No. S-3027-EX-97, to Worldwave to conduct such testing. These two consecutive grants of STA enabled Worldwave to engage in trials of its system for a one-year period. Approval of Worldwave's experimental license application would give the company two years to proceed with further evaluation of its WLL system. Because Worldwave's current STA expires on August 18, 1998, we respectfully request the experimental license to begin on August 19, 1998.

In justification of its request for approval, Worldwave notes the following:

- Worldwave has received *no interference complaints* from any licensed or unlicensed spectrum user during the beta testing of its WLL system and RAUs.
- Worldwave requires additional time to beta test its WLL system, despite its initial technical success in the deployment of end user Radio Access Units ("RAUs") and use of the above-indicated unlicensed portion of the spectrum;
- Pursuant to § 5.202(j) of the FCC Rules, Worldwave seeks the two-year license period to more accurately determine and understand customer reaction as part of test-marketing the company's WLL service;
- Worldwave requires the additional time requested to confirm that the RAUs associated with its WLL system comply with Part 15 of the Commission's Rules.
- Worldwave anticipates that it will complete its testing and file for Type Acceptance of its RAUs in a period not to exceed two years. Worldwave has engaged an initial testing house and is presently seeking intellectual property counsel.

Worldwave, based in Omaha, Nebraska, has FCC authorization to beta test its WLL system in locations throughout Nebraska and Colorado, including residential and non-

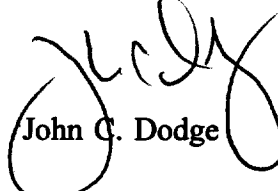
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residential areas. The company's RAUs conform to all subparts of Part 15.247 of the Commission's Rules. Worldwave has developed a proprietary algorithm that enables its frequency hopping spread spectrum system to recognize other users within the spectrum band. This unique feature allows Worldwave's system to individually and independently select and adapt its hopsets to avoid hopping on occupied channels. The maximum peak power output of Worldwave's intentional radiator shall not exceed one (1) watt. Finally, Worldwave will continue to comply with representations it made in conforming to the grant of STA. All title to the transmitting equipment used in testing will remain with Worldwave. The company will also abide by the same number of units to be deployed.

Worldwave hereby affirms its commitment to continue to observe all noted provisions of Part 5 of the Commission's rules and FCC Form 442, and all representations made by counsel to the Commission.

Any questions regarding this matter may be directed to the undersigned.

Sincerely yours,



John C. Dodge

cc: Carl Huie