

Colorado Satellite Services

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

Gentlemen:

Colorado Satellite Services (CSS) hereby requests a Special Temporary Authority (STA) to allow testing of satellite ground stations near Denver and Colorado Springs, Colorado. This STA will be used by CSS to test and check out satellite ground stations it is developing and installing under contract to the US Air Force Academy and other customers. This license will be used on a very limited basis to assure proper operation of these stations against low earth orbiting satellites. Specific information required by regulations is contained in Exhibit A. CSS is a consulting company engaged in engineering, construction, testing and operation of satellites and ground station equipment for a variety of customers. Mr. White holds an Amateur Extra class license, call sign WD0E, and has been developing and building satellites for 12 years. He is presently the control operator of two Amateur Radio satellites: AO-16 and DO-17. He has held an Amateur service license for 37 years.

The satellites CSS plans to use for the testing of ground station equipment include HealthSat-2 which is owned by SatelLife and PoSAT-1 owned by the SAT Consortium of Portugal. Both are operationally controlled by Surrey Satellite Technology (SSTL) of the UK. Additionally the stations will be tested on frequencies that will be used by PICOSAT which is being built by SSTL, and Falconsat-1 which has been built by cadets and faculty at the US Air Force Academy and by CSS. PICOSAT and Falconsat-1 are currently awaiting launch. S80/T and FASAT-B are operated as experimental satellites by SSTL. Falconsat-1 is an educational and scientific satellite and is completely unclassified. Special temporary authority is requested to operate radio-transmitting equipment as described in the following table:

Frequency (MHz)	Output Power (Watts)	Emission Designation	Satellite System
149.8475	50	16K0F1D	HealthSat-2
149.8225	50	16K0F1D	HealthSat-2

148.5850	50	16K0F1D	PoSAT-1
148.2850	50	16K0F1D	PoSAT-1
148.0250	50	16K0F1D	PICOSAT
148.0500	50	16K0F1D	PICOSAT
148.0150	50	16K0F1D	Falconsat-1
148.0300	50	16K0F1D	Falconsat-1
149.7150	50	16K0F1D	S80/T
149.3250	50	16K0F1D	FASAT-B
149.4750	50	16K0F1D	FASAT-B

Test transmissions on these frequencies will be limited to a few seconds duration a few times a day. The test period is expected to last through January 15, 2000. During that period testing will be done on a maximum of 10 days. Maximum transmitted power will be less than 50 Watts except for transmissions of a few seconds at 100 Watts. Two types of antennas will be tested, a zero dB gain omnidirectional antenna and a directional Yagi antenna with 10 dB gain. The ground station fixed sites are at the US Air Force Academy near Colorado Springs, Colorado, and at the CSS laboratory about 35 miles south west of Denver, Colorado.

CSS understands that the use of the requested frequencies will be on a non-interference basis. CSS retains control of these stations and all transmissions during these test periods.

A completed copy of FCC Form 149 along with the \$45.00 processing fee is enclosed.

Sincerely,


James J. White
President