

Exhibit #1

Manufacturer	Antenna Diameter	Band	No. of Units*	3 dB Beamwidth Horizontal Plane (degrees)	3 dB Beamwidth Vertical Plane (degrees)
Vertex	2.4 meters	C	1	1.3	1.3
Andrew	3.7 meters	C	1	0.8	0.8
Andrew	4.5 meters	C	1	0.85	0.85
Vertex	2.4 meters	X	1	1.0	1.0
Prodelin	1.2 meters	Ku	1	1.4	1.4
Prodelin	1.8 meters	Ku	1	0.9	0.9
Vertex	2.4 meters	Ku	1	0.58	0.58
Andrew	3.7 meters	Ku	1	0.36	0.36
Andrew	4.5 meters	Ku	1	0.33	0.33

* Only one antenna will be in use at any given time

Exhibit #2

The Government Communications Systems division of California Microwave, Inc. is a leading high quality supplier of earth station satellite terminals to the United States Government market. CMI/GCS designs, builds, tests and installs earth station satellite terminals throughout the continental U.S. and around the world.

Terminals CMI/GCS supplies are based on commercial off-the-shelf antennas and electronics. These terminals may use any antenna shown in Exhibit #1.

During the production test phase, CMI/GCS occasionally needs to perform various tests over the satellite to ensure that the terminals are compliant with FCC regulations and customer specifications. Typical tests which we may perform via satellite are transmit and receive antenna patterns, cross polarization isolation measurements, tracking performance tests, Figure of Merit (G/T) testing, and Bit Error Rate (BER) testing.

The specific objective to be accomplished is to ensure that all terminals designed and built by CMI/GCS are in full compliance with FCC regulations prior to delivery to its customers. A grant of this Experimental Radio Service authorization would enable CMI/GCS to achieve this goal.

The public interest is served, as CMI/GCS works under Government contract. The development of these technologies improves communications for Government agencies, to the benefit of US citizens.

CMI/GCS has previously held an experimental license for the facilities proposed in this application, pursuant to FCC File Number 4898-EX-P/L-95. That application, filed on July 21, 1995, was granted and the authorization became effective on May 22, 1996, for a term expiring June 1, 1998. The call sign assigned was WA2XAR.