

May 17, 2001

TO: James Motley
Western Pacific Regional Office
Air Traffic Division, AWP-520
15000 Aviation Blvd.
Hawthorne, CA 90260

FROM: Paul Guckian
Qualcomm Inc.
5775 Morehouse Drive
San Diego, CA 92121
858-651-1547

I request a frequency be reserved. The following information is offered:

Service Volume Required: 5091-5250 MHz

Latitude/Longitude: 27 deg. 01'11.8204"/134 deg. 12' 50.8407"

Height above sea level: 492 feet

Equipment type to be used: C-band antenna and feed, transmit/receive RF signal processing electronics, pedestal and three axis mount, autotrack receiver equipment, antenna monitoring and position control unit, interfacility link equipment

Function to be served: Test facility to validate antenna performance, tracking performance, transmitter and receiver performance, radiating pattern characteristics, and reliability, maintainability, and availability of the Globalstar Gateway.

This facility is approximately 5 miles from the nearest airport (Miramar Marine Corp Air Station) and is surrounded by office buildings that are taller than the antenna.

Please let me know if you require any additional information.

Thank you very much for your assistance on this matter.

Gateway Antenna Characteristics

<i>Parameter</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Units</i>
Transmit frequency band	5050	5250	MHz
Receive frequency band	6875	7075	MHz
Antenna diameter	5.5		Meter
Transmit beamwidth (3 dB)	—	0.72 nominal 0.93 maximum	Degree
Receive beamwidth (3 dB)	—	0.60 nominal 0.68 maximum	Degree
Axial ratio	—	1.0	dB
First side lobe	—	-20	dB