



July 20, 2003

Federal Communications Commission
Experimental Radio Service
POB 358320
Pittsburgh, Pa 15251-5320

Subject: Request for Temporary Authorization to Transmit

TCOM, L.P. requests authorization to install and operate the following equipment from October 1, 2003 until January 31st 2004 for the purpose of evaluating the performance of the equipment under operational conditions.

The location of the equipment will be:

190 TCOM Drive
Elizabeth City, North Carolina 27909
North Latitude: 36:13:47
West Longitude: 76:08:19

Contact: Charlie Knauss
Site Operations Manager
252-330-5555 ext 159

*Area Rad/Nor
6, N6: 1787
for*

A/c

Weather Radar manufactured by ADC consisting of Rockwell Collins Doppler Radar (WRT-701C) using a 30" phased array flat plate antenna(WFA-701C/G)

Frequency: 5.44 GHz
Power: 200 watts peak
Antenna: Phased Array

*6mi? 30.5dA
ERP = 137kW*

*PW = 2-20
PRR = 181-144MHz*

2. Wind Profiler manufactured by Applied Technologies

Frequency: 449MHz
Power: 2kW peak
Antenna: Steerable Phased Array (33dbi gain);
36ft flat plane ground mounted Yagi-uda
Beamwidth: 3-db is 3.4°

*2.5kW(ERP)
20dB BW = 2MHz
ERP = 2
Pw = 0.5-4us
PRR = 10MHz*

Sincerely,

J. R. Vannier
Deputy Program Manager
410-312-2330
Ray.Vannier@tcomlp.com

Carl Huie

2955703

From: Ray Vannier [ray.vannier@tcomlp.com]
Sent: Friday, August 15, 2003 10:13 AM
To: Carl Huie
Cc: Alan Cordaro; Cindy Thompson
Subject: RE: Telcon

Good Morning Carl,

I have recieved information from our vendors:

Weather Radar Emissions Designator is 56M0PON
Wind Profiler Emissions Designator is ~~13~~2M0PON

Hopefully this answers the bandwidth question since my understanding is that the first number is the bandwidth.

Regards,

Ray

>>> "Carl Huie" <Carl.Huie@fcc.gov> 08/11/03 04:41PM >>>
Oops, still need bandwidths (at -20db points).

-----Original Message-----

From: Ray Vannier [mailto:ray.vannier@tcomlp.com]
Sent: Monday, August 11, 2003 4:37 PM
To: Carl Huie
Cc: Alan Cordaro; Barney Clarke; Chet Kareta; Cindy Thompson; Mike Hyde
Subject: Telcon

Hello Carl,

In response to your request the following information will hopefully answer your questions.

Wind Profiler

Antenna Gain 33dbi
Pulse Width .5 - 4 microseconds
PRF 10Khz
Antenna Beamwidth 3db 3.4 degrees
30db 8 degrees

2.5 MW (ERP)

Weather Radar

Antenna Gain 30.5db
Pulse Width 2 - 20 microseconds
PRF 181 - 1448 Hz
Antenna Beamwidth 5.4 degrees
Scan 360 degrees
Elevation -2 to 60 degrees

x 200W = 137 kW (ERP)

If you need additional information just let me know.

Thanks,

Ray

TCOM, L.P. Deputy Program Mgr.

(410) 312-2330

ray.vannier@tcomlp.com