

From: Howard Fine [howard@pactv.com]
Sent: Friday, January 14, 2005 4:13 PM
To: jgoldstein@cengen.com
Subject: RE: coordination for FCC frequency license for Southern California 413 to 450 MHz?

Those are not broadcast channels so I have no say on them. Some are federal 1 way and some are ham use.

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

From: Joe Goldstein - CenGen
Date: 1/14/05 1:03 pm
To: howard@pactv.com
Cc: goldstein@cengen.com
Subj: RE: coordination for FCC frequency license for Southern California 413 to 450 MHz?

Howard,
Regarding the below frequencies, are the first three possible?

Start	Stop
Frequency	Frequency
413.1	423.1
426.5	436.5
439.8	449.8

Those frequencies are below the start of the UHF TV band (channel 14 which starts at 470 MHz)

Regards,
Joe Goldstein
Consulting & Engineering Next Generation Networks (CenGen)
<mailto:goldstein@cengen.com> goldstein@cengen.com
410-715-1300 phone
443-799-1384 cell
410-715-8797 fax

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

From: Joe Goldstein - CenGen [mailto:jgoldstein@cengen.com]
Sent: Wednesday, January 12, 2005 5:03 PM
To: howard@pactv.com
Cc: goldstein@cengen.com

Subject: coordination for FCC frequency license for Southern California

Howard,
I found your email address on the SBE frequency coordination web site. I would like to be in contact with you regarding some frequency coordination issues related to some testing that we would like to conduct in the Southern California area. I have been in contact with the FCC and was told that coordination efforts should be conducted before applying for an experimental license.

The work that the frequency license will support will be to facilitate equipment testing and network system developmental testing of emerging Joint Tactical Radio System (JTRS) radios and networking technologies. I am inclosing a soft copy of a document that contains all of the specifications of the radio and antenna (the JTRS Cluster 1 document). I am also attaching a copy of a draft exhibit for an FCC experimental

license application. I have performed a geographic search of the FCC data base to look for frequencies that could be candidates for testing this radio. The candidate frequencies for an FCC experimental license are:

Start Frequency	Stop Frequency
413.1	423.1
426.5	436.5
439.8	449.8
620.8	630.8
632.1	642.1
650.9	660.9
663.5	673.5
682.1	692.1

The emission designator for each frequency is G1D10M. OFDM waveform and 10 MHz bandwidth. Transmitter peak power will be 100 watts for frequencies up to 450 MHz; above 450 MHz, the maximum transmitter peak power will be 20 watts. The maximum antenna gain will be 5 dBi, using commercial off-the shelf antennas; therefore the maximum radiated power below 450 MHz will be 316 watts and 63 watts for frequencies above 450 MHz. Airborne antenna height will be 6096 meters, maximum.

I realized that this is a wide range of frequency spectrum. However, it is desired to test at all of the above frequencies for the proof of concept development efforts that this testing will support. The desired goal is to allow testing in as wide a frequency range as possible and in as wide a geography as possible. If it turns out that this is not possible, I would like to discuss with you how to scale back the request (# of frequencies, radius, power, etc.) to provide testing opportunities that can be accommodated and not adversely effect other spectrum users

I hope this is enough information for us to begin a dialogue to identify frequencies to support the testing efforts.

Regards,
Joe Goldstein
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