

From: Rich Hibbeler
To: Carl Huie
Date: 4/7/03 11:31AM
Subject: STA file # 0107-EX-ST-2003

"Amendment"

Carl, per our conversation, we wish to drop the request for confidentiality. Please find attached a revised description of service document. Please delete the previous attachment for the description of service from the application.

CC: Greg Macey

vArc Systems, Inc.
SPECIAL TEMPORARY AUTHORITY APPLICATION
March 26, 2003

DESCRIPTION OF EXPERIMENT

The purpose of the proposed experiment is to demonstrate the effectiveness of utilizing an experimental system, which incorporates 2.4 GHz transmission.

Two models will be demonstrated, both using a transmitter and rechargeable battery to send a signal to a receiving antenna. The "off the shelf" transmitter is a 1-watt, 4-channel device, utilizing frequencies 2413, 2432, 2451 and 2470MHz. The radio is type accepted for Part 15 of the FCC rules, but will be modified for the purposes of this experiment. The radio will be type accepted for Part 90 of the FCC rules in the future. For the purposes of this application we will only be applying for frequencies 2432 and 2451 MHz. We will use a 5dB transmit gain omni-directional antenna.

One model will use a temporary fixed-location receiving antenna, a "patch", Yagi, or parabolic antenna, depending on site conditions. The other model will use a "patch" receiving antenna mounted in a mobile carrying case. The distance between the transmitter and the receiving antenna will be less than 0.4km.

Each system will be used for short periods (transmitter battery will only last about one hour). The second model will be used at multiple locations and times within the city.