

From: Scott Archer

To: John Kennedy

Date: January 02, 2002

Subject:

FCC File #: 0272-EX-PL-2001- Reply

Message:

2002-01-02 2145UTC

to: Mr. Kack Kennedy \ FCC

fm: Mr. Scott Archer \ GAI

re: FCC file 0272-EX-PL-2001 [1599] update

Mr. Kennedy -

This email provides the info requested in today's email and phone conversation: the on-line 442 app will also be amended with the same data.

1. operating radius

as reads: 40 kilometers

to read: 75 kilometers

discussion:

The 40 km value came from our original STA and was transposed into the 442 application. 75 kilometers is the correct radius for both the fixed and mobile license, as the new 6th and 7th sensors being installed on mountaintops in April 2002 will extend the lightning detection network radius out to 75 kilometers.

2. base and mobile lat\long confirmation

Both operations will use the listed lat\long as center of the geographical base:

N32-14-54

W-111-6-23

discussion:

See attached files site_GIS.jpg and ATC_lease.jpg for lat\long confirmation from the Tower Peak lease holder, American Tower Corp. Our test pulser is located adjacent to the 200' tower with your FCC number 1218220.

3. Please note that our test pulser has been operating under a STC for the last 6 months without incident under call sign WB9XMW and FCC file number 0139-EX-ST-2001. Complete details of the test pulser operation and planned use are listed in that file. Our test signal is not continuous, but is a 40 nanosecond timed pulse synchronized with GPS.

4. The 3D lightning detection network that this pulser supports is intended for use by NASA, the FAA and the Natl Weather Service for severe weather, such as microbursts and tornado funnel drops, prediction: for the 1st time, weather services will be able to give 5-12 minute accurate warnings