

The Boeing Company
Cabin Systems
RF Amplitude and Phase Measurements
1 Primary Location
6 Back up Locations

7/9/2007

Submitted by:

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EXHIBIT 1

Item 4

Boeing needs to make RF amplitude and phase measurements using custom designed and Boeing manufactured dipole antennas within various airplane cabin structures. The testing will be conducted at specific remote, non-major airports at 7 locations. Actually, Boeing expects to use location 2) Marana Air Park for all tests. The others are back-ups to cover aircraft when they are available.

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Boeing is submitting this application for research and development to perform RF amplitude and phase measurements. The development of new antennas for use on aircraft provides a competitive advantage in the commercial aircraft market. Boeing considers the research and development of new antennas for use on aircraft a trade secret providing a competitive advantage in the commercial aircraft market. Boeing will be continually testing to develop new antennas, so this information should be held confidential indefinitely. The new wireless LAN architectures and antenna designs are Boeing intellectual property and patent sensitive.

Period of Operation

A test event is planned every few weeks, consists of approximately 5 days of testing, 8 hours per day, having several sweeps per hour. The dwell time per Hertz (RF sweep) is less than or equal to 1 microsecond. All of the testing is planned for one location, but the other 6 locations are requested for back up.

Mobile Operation

All tests are conducted while the aircraft is on the ground at specific parking areas as designated by the Boeing customer that owns the aircraft. The flying public is not on board the aircraft at anytime. Only Boeing engineers and technicians will be on board the aircraft while the tests are conducted.