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Reference Number: 4818
FCC File No. 0291-EX-PL-2006
Confirmation Number: EL932382

March 22, 2007

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Boeing submitted this application for research and development of new antennas for the use of wireless LANs on aircraft. 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.

Boeing wants to test commercial wireless LAN products using custom designed antennas with specially shaped radiation patterns to evaluate performance and electromagnetic interference with airplane systems.

The antenna will be located inside the aircraft.