

WIRELESS STRATEGIES INC.
FCC FORM 442

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TECHNICAL SUBMISSION

Date of Technical Submission: February 15, 2008

The purpose of this application is to obtain experimental authorization to test newly developed equipment whose parameters meet or exceed the requirements authorized in certain existing licenses that will be involved in the testing and to demonstrate that the Distributed Radiating Elements (DREs) of a Smart Antenna System, operating within the Smart Antenna System's interference contour, can reuse the licensed frequencies without causing harmful interference.

Wireless Strategies Inc has been issued Radio Station Authorizations WQGH695, WQGH696 and WQGH697 and proposes to use the licensed antenna locations, antenna characteristics, frequency, power, frequency tolerance, emission and bandwidth data for the experiments.

Therefore, the applicant requests that the technical parameters of the experimental license reference the antenna locations, antenna characteristics, frequency, power, frequency tolerance, emission and bandwidth data already authorized by Radio Station Authorizations WQGH695, WQGH696 and WQGH697.¹

As the licensee of Radio Station Authorizations WQGH695, WQGH696 and WQGH697, the applicant has all the information necessary to ensure that the interference received at any existing or proposed victim receiver input from any DRE (I_{DRE}) will always be less than the interference received at any existing or proposed victim receiver input from the Smart Antenna System (I).

Before activating any DRE a study by Comsearch, another frequency coordinator or engineer will be conducted to assure that the interference received at any existing or presently proposed victim receiver from any DRE (I_{DRE}) will always be less than the interference received at any existing or proposed victim receiver from the Smart Antenna System (I). In addition, when Wireless Strategies or its frequency coordinator is notified of a proposed new or modified path, a study will be conducted to confirm that $I_{DRE} < I$ at the newly proposed path's victim receivers.

¹ Copies of the Radio Station Authorizations for WQGH695, WQGH696 and WQGH697 are attached.

Operations under the requested experimental authorization will serve the public interest by allowing the applicant to:

a) test emerging equipment that meets or exceeds the parameters authorized in the license and is capable of operating in a legacy mode (frequency usage once on a single polarization) and also in a Concurrently Coordinated mode (multiple frequency re-usage on a single polarization).

b) demonstrate the ability of a Smart Antenna System with DREs to reuse a frequency multiple times under an operational fixed microwave radio license without causing harmful interference, thereby dramatically decreasing the cost of services and increasing the effective and efficient use of spectrum.

The applicant recognizes that experimental authorizations are secondary and that operations under them must cease if interference is caused to regularly authorized operations until the interference is rectified.

Applicant certifies that neither it nor any party to this application is subject to denial of Federal benefits under the provisions of the Anti-drug Abuse Act of 1988.