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FCC
Experimental License Branch

Attention: John Kennedy

Re: Description of Experiment for Mobile Access Networks.

STA File No.: **0415-EX-ST-2004**
STA Confirmation Number: **EL14667**

Dear Mr. Kennedy,

Mobile Access Networks has applied for an STA to operate their 700 MHz digital communications system in a multi-story building, the Wilson Building in Washington, D.C. The experiment is expected to last 6 – 12 months.

Project Description and Design summary

The project is intended to provide coverage to the Wilson Building as follows:

Wilson Building

Ground - 47,000 sqft

Yard - 47,000 sqft

- 47,000 sqft
sqft

Floor 4 - 36,000 sqft

5 - 36,000 sqft

19,000 sqft

Wilson Building Total Area = 315,000 sqft

Court

Floor 1

Floor 2 - 36,000

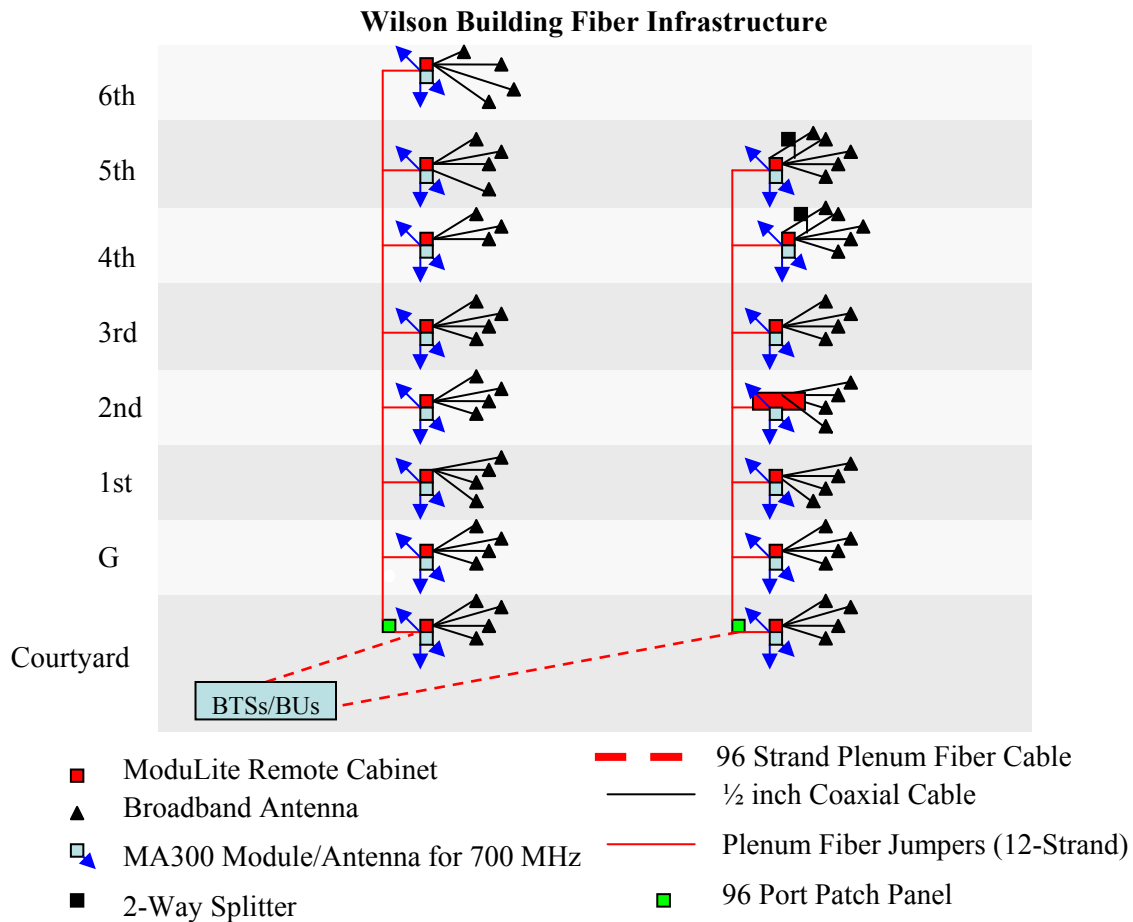
Floor 3 - 36,000 sqft

Floor

Floor 6 -

A dual band "Modulite" system has been designed to provide a network of 90% coverage at -85 dBm or greater. The system is fed by a BTS located on the first floor of the building.

Conceptual Diagram



The BTS RF signal is converted directly to infrared which is transmitted over fiber optic cable to the ModuLite remote cabinets (model RHU-SB-700F-4) which directly convert optical signal to RF in the 700 MHz band. Each remote unit supports up to 4 antennas for 700 MHz operation, and there will be approximately 15 remote cabinets throughout the building.

The system has been designed so that there is -85 dBm eirp or less at the boundaries of the building and the courtyard of the building.

If you have questions or need further information, please don't hesitate to contact me.

Sincerely,

T.N. Cokenias
Agent for Mobile Access Networks

