



DULLES AIRPORT IN-BUILDING WIRELESS SYSTEM

M.C. Dean, Inc. Dulles International Airport Dulles, VA 20166	
Performance Period: October 2004 – January 2005	
Status: Completed Successfully in 2005	

The Metropolitan Washington Airport Authority (MWAA) is the entity that operates the Washington Dulles International Airport and the Washington Reagan National Airport. Both of these airports have significant daily activity year-round. As such, the security, administrative and other operational personnel that work at these airports operate an extensive network of hand-held and mobile trunked radio transceivers in the 800MHz public service band. As it is critical to have complete coverage in the airport terminals (even underground), MWAA has operated a fairly extensive “In-Building Wireless” System.

Morcom was selected by one of the contractors that is building the new terminal areas at the airport to design, install, and test the 800MHz distributed antenna in-building wireless system. As part of its activities, Morcom RF engineers had to study the requirement, review the blue-prints for the new buildings and design a suitable in-building wireless coverage system. Once the preliminary plans were approved by the authority, Morcom installed the cables, antennas, and ancillary equipment that are part of this system. Extreme care had to be taken in meeting deadlines and in complying with all required FCC, OSHA, and electrical codes and regulations.



Antenna Detail



Plenum Cable Detail (installed in ceiling)