

US DEPARTMENT OF TRANSPORTATION

WASHINGTON, DC, USA

GOVERNMENT

MOVING AT THE SPEED OF BACNET

Opened in September of 2006, the United States Department of Transportation headquarters in Washington D.C. consists of a shared underground parkade and two similar towers of eight and nine storeys. The complex is the first cabinet-level headquarters to be designed and constructed in the US capital in over three decades. Accommodating over 5,000 federal employees, the eleven-acre site spans two city blocks near the Anacostia River.

PROJECT DETAILS

To control the two million square feet of the US DOT headquarters, two large central plants serve 94 air handling units, 90 fan coil units, and over 2,000 variable air volume terminal units. In the event of an opposite-building failure, each central plant is sized to serve mission-critical equipment in both wings. The native BACnet® system was selected after an exhaustive procurement process based heavily on the capabilities of the Reliable Controls® MACH-System and Pritchett Controls, the local Reliable Controls® Authorized Dealer. In addition to providing local control for the equipment listed above, the Reliable Controls® MACH-System integrates packaged pump skids, variable frequency drives, lighting controls, and power monitoring via BACnet®.

The US DOT headquarters was the largest BACnet® project awarded in 2004.

To learn more about projects using Reliable Controls®, visit www.reliablecontrols.com/projects/overview.



PROJECT TYPE:
New Construction

INSTALLATION TYPE:
HVAC, Lighting, Power Monitoring

TOTAL AREA:
186,000 m² (2,000,000 ft²)

EQUIPMENT INSTALLED:
42 ETHER-Link™
91 MACH-Zone™
144 MACH1™
2,077 SMART-Sensor™
2,500 MACH-Air™

NETWORK:
Ethernet, EIA-485

INTEGRATION:
BACnet® and Modbus

TOTAL SYSTEM POINTS:
14,000 points

RELIABLE CONTROLS® DEALER:
Pritchett Controls

www.reliablecontrols.com