

GUINNESS TOWER

VANCOUVER, BC, CANADA

CORPORATE

FULL-BODIED RETROFIT

Guinness Tower is a 23-storey office building located in downtown Vancouver, British Columbia. Originally constructed in 1967, the tower has recently been retrofitted with a Reliable Controls[®] MACH-System.

PROJECT DETAILS

The system consists of two MACH-Global™ controllers networked together on an Ethernet LAN. Each MACH-Global™ has a subnetwork with a MACH2™ controller commanding interior reheat coils and perimeter induction units on each floor. All primary equipment is controlled by the main network MACH-Global™ controllers with the 2nd floor unit controlling the chiller and boilers, and the 13th floor MACH-Global™ controlling the four main AHUs for the building. Guinness Tower has two large centrally located chillers and a boiler which provide heating and cooling to the building. Ventilation is provided by four large AHUs located in the 13th floor mechanical room.

Before the retrofit, the previous building system used the average building temperature to regulate the building climate, resulting in spotty comfort. With the installation of a Reliable Controls[®] MACH-System in the building, facility managers are able to control the main AHUs based on the actual heating and cooling demand within the building. Consequently, tenant comfort is maximized and energy saved.

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



PROJECT TYPE:
Retrofit

INSTALLATION TYPE:
HVAC, Lighting, Water Monitoring

TOTAL AREA:
23,000 m² (250,000 ft²)

EQUIPMENT INSTALLED:
2 MACH-Global™
6 MACH1™
20 MACH2™

NETWORK:
Ethernet, EIA-485

TOTAL SYSTEM POINTS:
1,500 points

CONSULTANT:
Quadra Pacific Consultants

RELIABLE CONTROLS[®] DEALER:
Control Solutions

www.reliablecontrols.com