

# WALTER C MACKENZIE MEDICAL CENTRE

EDMONTON, AB, CANADA

HEALTH CARE

## CRITICAL ENVIRONMENT

A multi-structure trauma centre, the Walter C. MacKenzie Health Science Centre is one of Canada's leading health sciences centres, providing a comprehensive range of diagnostic and treatment services.

## PROJECT DETAILS

In 1997, Serv-All Mechanical Services replaced an aging 1,500 point smoke control system with an Ethernet-based Reliable Controls<sup>®</sup> MACH-System. Subsequently, other control systems and functionality have been added. In the Autumn of 2003, the 650-bed, 351,000 square metre facility expanded with the addition of a four-storey, heart and stroke research centre. The current system employed by the hospital monitors and controls over 6,000 hard points. With the addition of the Mankowski Alberta Heart Institute, another 3,000 hard points were added.

In fiscal year 2000, the planning team reduced energy use to a level of 18% below 1996 levels. As a result, the facility was honoured with two awards from the climate change Voluntary Challenge & Registry (VCR). The first award recognized GOLD level reporting of Energy Performance and Reduced Emissions. The second award recognized energy efficient retrofit and new construction projects nationally, across all sectors of Canadian business. Doug Dunn, Manager of Building Operations, was instrumental in reducing the overall energy use in this expanding facility.

To learn more about projects using Reliable Controls<sup>®</sup>, visit [www.reliablecontrols.com/projects/overview](http://www.reliablecontrols.com/projects/overview).



### PROJECT TYPE:

**Retrofit & New Construction**

### INSTALLATION TYPE:

**HVAC, Lighting, Smoke**

### TOTAL AREA:

**351,000 m<sup>2</sup> (3.7 million ft<sup>2</sup>)**

### INSTALLATION AREAS:

**Operating Theatres, Research Labs, Critical Care Units, Isolation Units, Administration**

### NETWORK:

**Fibre-optic, Ethernet, EIA-485**

### TOTAL SYSTEM POINTS:

**9,000 points**

### CONSULTANTS:

**Suncord Engineering, Stantec, Hemisphere Engineering Inc., Keen Engineering, Earth Tech Engineering**

### RELIABLE CONTROLS<sup>®</sup> DEALER:

**Serv-All**

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