



AIR CANADA – SYSTEMS OPERATIONS CENTRE

MISSISSAUGA, ON



QUICK FACTS

- + Airport / Aviation
- + Operations Centre
- + 100,000 square feet
- + LEED Gold® Certified
- + Smith + Andersen
Mechanical, Electrical,
Data Communications,
Safety and Security



PHOTO CREDIT: Alina Cornea Architectural Photography



AIR CANADA SYSTEMS OPERATIONS CENTRE

ABOUT THIS PROJECT

- + Systems Operations Centre (SOC) for Air Canada is a two-storey facility (operating 24-hours a day, 7-days a week).
- + Designed as a Tier II facility (as defined by the Uptime Institute).
- + Project success subject to the ability to maintain and control the precise physical operating environment of the data centre.
- + Employed as the mechanical, electrical, communications, and security consultant on this unique project.
- + Used ASHRAE's standards for mission critical environments, ensuring factors such as temperature, dew point range, and relative humidity were precisely controlled to meet the needs of the space.
- + SOC features an underfloor air distribution system for enhanced ventilation effectiveness and occupant comfort (allowing each occupant to control the air supply in their zone).
- + Provided high-efficiency condensing boilers to reduce natural gas costs of facility heating requirements.
- + An emergency power generation system supports the entire building and consists of three 800kW diesel generators.

LOCATION

Mississauga, ON

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical,
Data Communications,
Safety and Security

KEY TEAM MEMBERS

ZAS Architects + Interiors

SIZE

100,000 sq. ft. (9,292 sq. m.)

BUDGET

\$23.5 Million

COMPLETION YEAR

2013

SUSTAINABILITY

LEED Gold

HOT BUTTONS

AIRPORT / AVIATION

OPERATIONS CENTRES

BAS

EMERGENCY SYSTEM

NEW BUILDING

OWNER OCCUPIED

LEED GOLD



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