



# RBC DATA CENTRE

## ABOUT THIS PROJECT

- + Tier 3 data centre facility with 60,000 square feet of white space, and 10,000 square feet of office space.
- + Acted as the mechanical base building engineers.
- + Base building incorporates significant redundancy of systems to prevent single source failure (as the data centre operates 24 hours a day, 365 days a year).
- + Systems include UPS, diesel generators (2 at 1,500kVA), mainframe chilled water cooling systems, variable air volume air handling for office area, constant volume ventilation air handling for computer area, self-contained computer room A/C units, and fuel oil systems for diesel generators.
- + Scope of work included technical feasibility and arc flash studies, as well as design and construction services.
- + Upgrades included an addition of an UPS and EPGS (2,250kVA) system.
- + Expanded the EPGS system to be 5,000kW and upgraded the existing UPS to 2,250kW (allowing for 80 watts per square feet of power density).

### LOCATION

Guelph, ON

### SMITH + ANDERSEN SERVICES PROVIDED

Mechanical

### SIZE

80,000 sq. ft. (7,433 sq. m.)

### BUDGET

\$19 Million

### COMPLETION YEAR

1991  
Upgrades: 2008

## HOT BUTTONS

UPGRADES

DATA CENTRE

ARC FLASH STUDY

FEASIBILITY STUDY

TIER 3 DATA CENTRE



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