



Victoria General Hospital MacKenzie Building Retrofit Halifax, Nova Scotia

Total Area 203,000 ft²
Mechanical & Electrical
Upgrading Cost \$6,600,000.00
Project Completion 1994
Client V.G. Hospital
Prime Consultants
..... F.C. O'Neill, Scriven & Associates Ltd.
Mechanical & Electrical Consultants
..... F.C. O'Neill, Scriven & Associates Ltd.



Demand for relief from environmental related sickness and badly deteriorated mechanical infrastructure were the driving forces behind the \$6,000,000.00 total retrofit of the HVAC systems for this facility.

It was imperative that the new system design allow for the total facility to remain fully functional, not just maintaining present air quality but immediately improving it.

As prime consultants F.C. O'Neill, Scriven & Associates Ltd. provided the planning and foresight of experienced professionals to overcome these seemingly insurmountable obstacles. It also required communicating the concepts of the new systems to the building occupants, valuing their input and garnering their support and co-operation through the two year ordeal of this massive retrofit.

The new design utilizes a digitally based variable air volume fume hood control and space pressurization system, new digitally controlled dual duct boxes. It involved conversion to 100% outside air with a run around heat recovery system, installation of a chemical free steam humidification system, conversion of the individual fume hood exhausts to a dual manifold central fume system with constant high velocity stack discharge. Mechanical and chemical cleaning of all existing supply ducts and diffusers ensured contaminant free air delivery to the occupied space.
