



HARBOUR VIEW HOSPITAL AIR CONDITIONING UPGRADES Sydney Mines, NS

Total Area	35,000 sq ft
Total Project Construction.....	N/A
Electrical Construction Cost.....	\$ 60,000
Mechanical Construction Cost...	\$445,000
Construction Time.....	2 months
Client.....	Cape Breton Health Care Complex, Attn: Nelson Poushay
Construction Manager.....	Cameron MacNeil, CBHC
Architect.....	N/A
Mechanical Consultants.....	F.C. O'Neill Scriven
Electrical Consultants.....	F.C. O'Neill Scriven

As a result of indoor air quality concerns raised by staff at the hospital, the Cape Breton Health Care Complex undertook to add air conditioning and humidification to the existing 35,000 sq ft, 18 year old long term care facility.

The first phase of the project was to complete an investigation into the upgrade options and related capital costs. The upgrades were to be reviewed with respect to draft provincial indoor air quality regulations.

The investigation concluded that the installation of cooling coils into the existing roof mounted air handlers was unworkable, and that given the state and age of the existing equipment full replacement was recommended.

The resulting design consisted of the addition of three new packaged air conditioners, three roof mounted air handlers, and a 45 ton air-cooled chiller. Humidification was added throughout the facility and all ductwork containing acoustical duct liner was removed and silencers installed to address noise abatement.

A new electrical service entrance was designed to accommodate the additional electrical load from the new cooling and humidification systems plus pick up the existing loads in the hospital.

