PURDY'S WHARF

HALIFAX, NS

QUICK FACTS

+ Office Buildings, Commercial Facilities, and Parking Garage
+ 900,000 square feet
+ $80-million Budget
+ Smith + Andersen Mechanical and Electrical

PURDY'S WHARF

ABOUT THIS PROJECT

- Located near Halifax Harbour and consists of two office buildings, commercial facilities, and a parking garage (all interconnected by a network of bridges).
- Complex relies on cool seawater for air conditioning as it gets pumped from the depth of the harbour through heat exchangers, providing free cooling of the building for most of the year.
- Chilled water coils were designed to operate at a higher than typical temperature so that the period when the building is free-cooled with seawater was extended to 10 months. Electric chillers are only required for cooling the remaining two months.
- During the two months of electric chillers, heat rejection is through the seawater exchangers eliminating the requirement for cooling tower.
- Special materials were used in all water conveying systems in contact with seawater such as PVC piping and valves and titanium heat exchangers.
- Seawater is filtered and treated to prevent clogging with mollusks.
- When the complex was constructed, natural gas was not available in the area and oil fired boilers were used to provide hot water for heating. Designed natural gas distribution and boiler replacement to utilize gas that is now available to the building.

LOCATION
Halifax, NS

SMITH + ANDERSEN SERVICES PROVIDED
Mechanical, Electrical

SIZE
900,000 sq. ft. (83,643 sq. m.)

BUDGET
$80 Million

COMPLETION YEAR
1990

HOT BUTTONS

OFFICE | COMMERCIAL | PARKING | MECHANICAL DESIGN | ELECTRICAL DESIGN