



EMBASSY SUITES
HOTELS®



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Embassy Suites Hotel Niagara Falls Niagara Falls, Canada

OVERVIEW

The impressive 42-story, 512 room Embassy Suites Hotel Niagara Falls, directly overlooks the famed Horseshoe Falls. Management was interested in a new technology for its cooling tower water treatment system that would reduce energy costs while avoiding the handling and storing of toxic chemicals in the hotel, creating a safer environment for the staff and guests.

COOLING SYSTEM CHALLENGES

The hotel had placed two Evapco Cooling Towers (210 ton capacity each - Induced Draft Counterflow) and two Carrier Chillers into operation in 2004.

After a half season of operation, scale buildup was clearly visible throughout the towers and chillers indicating that previous water treatment was insufficient.

Hotel operations management recognized the need to reduce energy costs by improving the efficiency of the scaled cooling towers and chillers.

SOLUTION

The EnviroTower system, including ancillary instrumentation and controls, was installed in August 2004.

RESULTS

Upon inspection at the end of the first full cooling season (October, 2005), Carrier service personnel found the Chiller Condenser Tubes on both Chillers had no discernable sign of scale or fouling.

Conditions on the cooling tower had greatly improved based on inspection:

- Previously visible scale had completely disappeared in the sump, on the sides of the Cooling Tower, and covering the sump float and vertical sump valve assembly
- Recirculating water was clear with no visible turbidity
- Biofouling evidence was absent and no slime or algae was visible

The hotel is estimated to achieve significant energy savings, lower maintenance costs and longer equipment life from installing EnviroTower's system:

- Lower electricity costs due to more efficient heat transfer from the elimination of scale and fouling on the Chillers
- Elimination of labor costs from "rodding out" the Chillers
- Extension of equipment life due to reduced corrosion rates

EnviroTower is the most technically advanced system for cooling tower water treatment. The patented system replaces traditional chemical treatment; providing total control of scale, corrosion and other factors to create an exceptionally clean system that dramatically reduces energy and water consumption, while eliminating toxic water discharge to improve our environment. The technology has been installed in 50,000 facilities worldwide, and provides an average payback on investment within 12 to 18 months.

For more details, please visit www.envirotower.com. or sales@envirotower.com