

Casinos Don't Gamble On Their Chilled Water



Conectiv Operating Services Company (COSCO), formerly Delmarva Operating Services Company, has been providing third-party Operations and Maintenance (O&M) services for power plant projects since 1989. Renamed COSCO subsequent to the merger of Atlantic Energy, Inc. (AEI) and Delmarva Power & Light Company (DPL) in 1998, the company has continued to grow and currently is providing O&M services for over fifteen cogeneration and thermal facilities located in New Jersey, New York, Delaware, California and Pennsylvania.

Conectiv's Atlantic City, NJ mid-town thermal plant currently owns and operates 25 Marsh-McBirney Multi-Mag Insertable Magmeters installed in various locations in and around the city.

Eight Multi-Mag's are installed on Conectiv's chilled water lines at their mid-town processing plant. The meters are utilized for billing purposes for their customers as well as for sequencing control of the chillers at the plant. Conectiv provides chilled water to various commercial establishments in and around Atlantic City for their air conditioning systems.

Walter Ratai, Conectiv's Manager of Asset Engineering, chose the Multi-Mag flowmeter for its proven accuracy specification, ease of installation (hot tap), capability to interface with their billing computers and the fact that it is a maintenance free instrument.

Another attractive feature was that the Multi-Mag could be installed near bends and elbows and consistently maintain a .5% accuracy specification. Since the majority of the installations needed to be done on tight, existing piping configurations, a meter requirement was that the sensor could be installed near bends and elbows. One of the most desirable features of the Marsh-McBirney meter was its ability to accurately measure flow close to bends and elbows unlike other meters that required long straight runs of pipe before and after the measuring location.

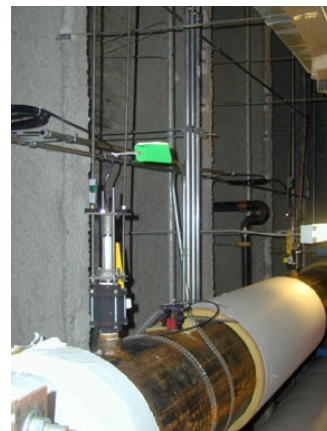
The cost of the flowmeter also played an important role in Conectiv's flowmeter selection process. The purchase price for most flowmeters, including spoolpiece magmeters increase substantially as pipe size increases. This is not the case with the Multi-Mag. Walter Ratai states that the "meter price was right also."



Over the past few years, several Atlantic City's resorts and casinos have abandoned their privately owned boiler and chilled water facilities and have instead selected Conectiv to supply their chilled water and steam needs in hopes of reducing their energy costs.

The Taj Mahal Resort and Casino and the Bally's Resort and Casino currently have Multi-Mag meters installed for billing verification as well as variable speed pump sequencing for control of their chilled water. Conectiv said that more casinos are expected to follow suit in the near future.

Two Multi-Mag Magmeters are also installed at the new Atlantic City Convention Center on chilled water lines for billing purposes and another meter is installed at the old convention center now called Boardwalk Hall for a billing application as well.



The Marsh-McBirney Multi-Mag Magmeter measures the flow of chilled water utilizing an insertable electromagnetic sensor that has multiple measuring points that span the entire pipe diameter. The insertable sensor detects and compensates for shifting profiles unlike spool-piece meters and other flowmeters that provide only a single point flow measurement. Typically, accuracy is better than the 1% accuracy specification. The streamlined sensor shape minimizes flow disturbances, thus providing minimal pressure drop, unlike vortex, turbine meters and orifice plates.

Multi-Mag's accuracy has been verified worldwide by independent testing laboratories and thousands of satisfied customers.

For additional information contact McCrometer, Inc.

Toll Free (800) 220-2279 (951) 652-6811

Fax (951) 652-3078

www.mccrometer.com