



## COMMERCIAL PROPERTY

### **Garratt-Callahan Solves a Mystery – and Heads Off a \$35,000 Repair Bill for a Popular Public Gathering Place**

#### **Problem**

At a convention center and concert hall in the Midwest, sections of 12-inch schedule 80 pipe in the cooling system were failing – less than five years after the facility was built. What was wrong? The facility's water treatment supplier at the time didn't know. But left unchecked, the problem was going to make it necessary to replace all of the 12-inch supply and discharge piping in the system. At the suggestion of the convention center's mechanical contractor, the local territory engineer from Garratt-Callahan was called. He sent a section of damaged pipe, as well as digital images taken on site, to Garratt-Callahan's headquarters for analysis.

#### **Solution**

Garratt-Callahan scientists determined that the corrosion inhibitors and biocides used in the cooling tower system were simply not doing their job: the pipe was failing because of severe under-deposit corrosion characterized by M.I.C. and sulfate-reducing bacteria. Garratt-Callahan created a customized water treatment plan that cleaned out the system, and implemented a reliable corrosion control and biocide program to protect the piping and control bacteria in the cooling tower system.

#### **Results**

The convention center's cooling system piping was saved from premature failure – and the center was spared the \$35,000 cost of replacing it. In addition, the center's energy costs declined as its water chiller heat exchange surfaces, free of corrosion deposits, started to operate more efficiently.

#### **Conclusion**

When it comes to solving tough water treatment problems, a century of experience and a collaborative approach can make all the difference – the Garratt-Callahan difference.

**Garratt-Callahan: Water treatment solutions for problems that other suppliers don't even understand.**