

## Leaks in Reboiler Detected With Months of Advance Notice



The information provided by Aspen Mtell® not only provided weeks of warning of asset failure, but also gave the experts insights into the real root cause.

**77** days  
of notice for leak events

### CHALLENGE

The company, a manufacturer of engineering thermoplastics, had previously experienced failures in their shell-and-tube reboilers. These reboilers were part of a process that produces a precursor for plastics production. They suspected corrosion but had little available online instrumentation to measure the water chemistry.

### SOLUTION

Aspen Mtell was deployed on the unit to increase the notification period. Using about 30 upstream process variables, a signature was identified that signaled a slow windup to the leak event. This was consistent with engineering intuition.

In a period of just three weeks, the team met at the site, reviewed the process drawings, gathered the required raw data and built the Aspen Mtell agents.

### BENEFITS

The pilot project was a success. The Aspen Mtell agents provided 77 days of notice for tube leaks. When these failures occur, they typically result in over €1M per occurrence in maintenance costs alone. The solution will pay for itself many times over with the avoidance of a single future occurrence.

AspenTech is a leading software supplier for optimizing asset performance. Our products thrive in complex, industrial environments where it is critical to optimize the asset design, operation and maintenance lifecycle. AspenTech uniquely combines decades of process modeling expertise with machine learning. Our purpose-built software platform automates knowledge work and builds sustainable competitive advantage by delivering high returns over the entire asset lifecycle. As a result, companies in capital-intensive industries can maximize uptime and push the limits of performance, running their assets faster, safer, longer and greener.

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