



**Leading Pulp & Paper Manufacturer Detects  
and Avoids Major Fire Using Aspen Mtell®**



Aspen Mtell found minuscule early signatures of trouble, where simple manual alert thresholds had been unsuccessful.

Aspen Mtell provided a nine-day advance warning of imminent overheating, allowing the plant to change operating conditions and avoid an operational shutdown.

9  
days

## CHALLENGE

Process and mechanical events at one of the company's wood products processing plants had created product quality and throughput interruptions, causing product losses.

## SOLUTION

- By scanning archived data in the plant historian and correlating with posted failure incidents in its asset management system, Aspen Mtell successfully identified the failure signature for an overheating situation in a kiln.
- Aspen Mtell's industrial machine learning found this same pattern among dozens of sensor signal data streams, where no single sensor could provide a clear indication of impending failure. Live autonomous agents then constantly monitored incoming signals.

## BENEFITS

- Very shortly after going live, an Aspen Mtell Agent detected the signature of the overheating kiln with a nine-day warning. The company responded immediately, changing the operating conditions to completely avoid this imminent catastrophe.
- Autonomous agents successfully detected other impending equipment failures weeks in advance, avoiding costly shutdowns.

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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