



# Nalco Early Warning Chatter Detection Technology

*Protecting Vital Assets; Continuous Monitoring*

**NALCO** Water  
An Ecolab Company

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## Early Warning Chatter Detection (EWCD) Technology Delivers:

- ▲ Protection of the Yankee dryer surface by providing early warning of impending chatter.
- ▲ Real time monitoring and alarming of potentially harmful crepe blade vibrations.
- ▲ Customized data processing, alarming, historical trending and display software designed specifically for the creping application, with an intuitive, user-friendly operator interface.
- ▲ Insight to Yankee coating stability on the dryer and troubleshooting tool for coating application and creping problems.

## Program Description

Nalco Early Warning Chatter Detection, or EWCD Technology, is one of a suite of new sensor and automation tools that has been developed by Nalco and its technology partners to provide tissue makers with increased knowledge regarding the performance of the creping process. These tools are designed to deliver consistent

product quality, improved machine efficiency and extended asset availability. The Nalco EWCD system provides real-time information on the vibration behavior of the creping blade. The system consists of on machine sensors, a monitoring box performing data acquisition, signal monitoring and conditioning functions, and a computer running vibration analysis software that is customized for the creping application.

## Technology Benefits

- ▲ Early warning of potentially harmful chatter events.
- ▲ Improved asset reliability and protection; extended time between Yankee grinds.
- ▲ Increased knowledge of the effects of mechanical setup, operational practices and chemical coating conditions on the creping process.
- ▲ Intuitive interface engages operators with a new tool to improve management of the creping operation.

## EWCD Technology

The occurrence of Yankee chatter has increased in the tissue industry due to market and technology trends that require high adhesion creping. EWCD technology is designed to provide tissue makers with real time feedback on the vibration behavior of the creping blade. Thus, harmful increases in vibration intensity are detected earlier and potentially harmful chatter events prevented.

EWCD technology, coupled with the experience and knowledge of Nalco industry technical consultants to help set up the system and interpret the data, provides tissue makers with a powerful new monitoring tool that helps them improve their operations and increase their bottom line financial results.

## Contact Us

For more information about EWCD Technology, please contact your local Nalco Water sales engineer, or visit [www.nalco.ecolab.com/program/nalco-water-early-warning-chatter-detection](http://www.nalco.ecolab.com/program/nalco-water-early-warning-chatter-detection).

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