

Spring 2006

Immediate Success with New CD82 Refiner Plates

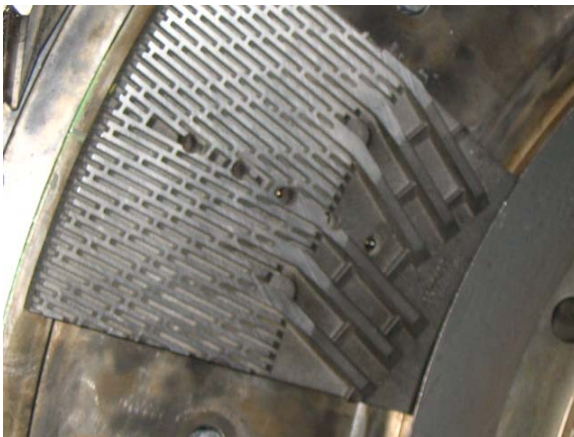
J&L strives to offer our high consistency customers a range of plate patterns to optimize their refining process. New techniques, based on scientific methods, have been developed to ensure that process improvements can be accelerated far beyond those that can be implemented based on experiential recommendations. SmartPlates technology has provided us with the “eye into the refiner”. More recently, the Refiner Plate Modeling (RPM) process has been introduced to zero-in on optimized plate patterns. This approach integrates SmartPlates and refiner operating data using mathematical models to design plate patterns customized to achieve specific goals such as reduced energy or optimized tensile strength.

These capabilities prompted a CD82 owner to inquire about plate supply. At the time, we did not offer replacement plates for that refiner. When our high consistency team went to engineering and manufacturing to ask if it could be done, they responded with an eager “CAN DO” attitude.

Our first trial gives testimony this technology works.

The mill, located in Eastern Canada, ordered conical plates with J&L's SmartPlates technology for its rejects CD82 refiner. They believed SmartPlates technology could be applied to expedite optimization of their plate patterns.

The plates, which have five and six temperature probes in the flat and conical zones respectively, were delivered, installed and are running great.



Flat Zone

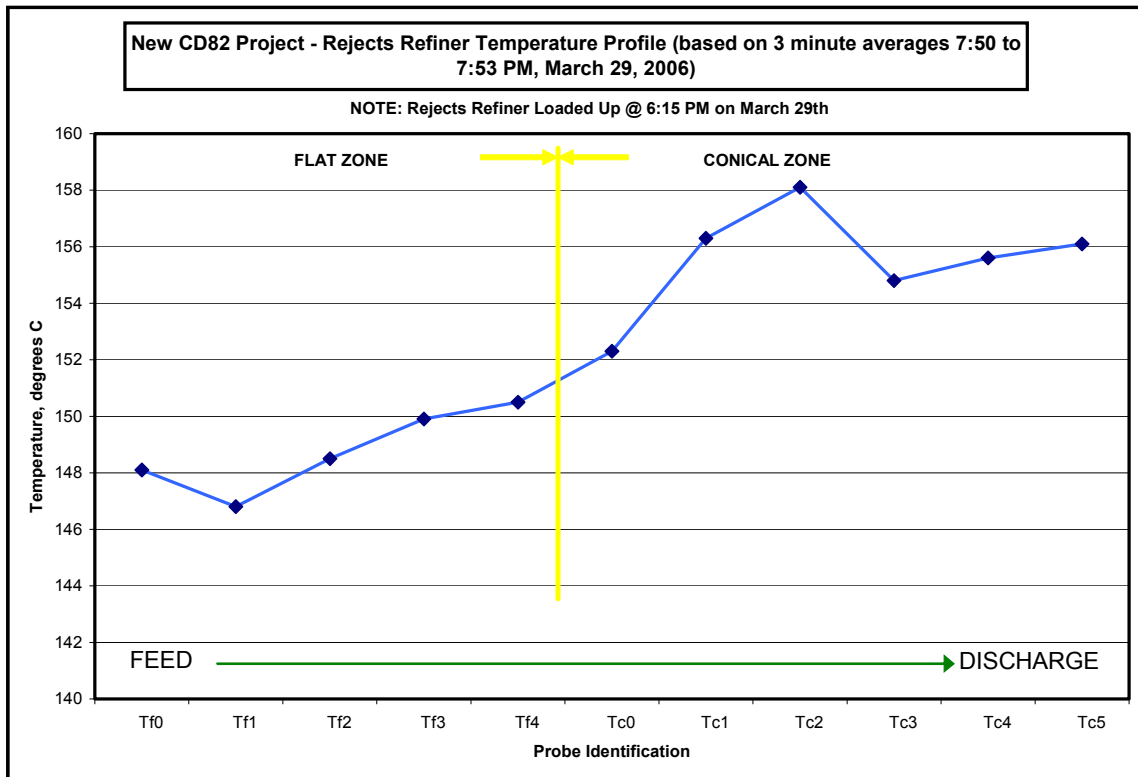


Conical Zone

Target quality was achieved from the very beginning. The initial temperature profile (shown below) indicates that work on the fibers progresses as the fiber mass moves through the flat and conical zones, closely matching the theoretical optimum developed by H. Hoglund many years ago! This

demonstrates that work is applied efficiently without wasting energy. The mill has responded by ordering a second set of the same plates.

Looking to optimize your plate pattern, speed up the trial process, and improve results immediately? Contact your J&L representative today.



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