Barefoot, Rick 0926-002

From: Taylor, Mark
Sent: Wednesday, August 13, 2003 11:39 AM
To: Baird, Jim
Cc: Barefoot, Rick
Subject: Lap Machine Production - Engineering Request

Jim,

I had some general discussion with Jim Williams of Andritz concerning the capacity of our lap machine and the potential for producing market quality pulp. Following is a summary of our initial discussion:

- Generally, our existing pulp press should be capable of 200 ADTPD at 42-45% dryness. This is based on Kraft pulp with a freeness of ~600 CSF. I have not yet given Andritz any specifics on the actual freeness, consistency or basis weight, etc. of our system.
- There are modifications that can be made to our existing press that would improve the water removal efficiency of the equipment at the higher production rates. I did not discuss the details of these modifications.
- An additional "heavy duty" press could be added after the existing press that would achieve a dryness of 50-52%.
- To achieve a dryness of 90%, a pulp drying system would be required. This would typically be a steam heated convection drying system.

The following would likely be needed to produce 200 ADTPD at 90% dryness:

- The target basis weight range for market pulp is 900-1200 grams/sq. meter.
- The press speed required to produce 200 TPD at this basis weight would likely exceed the capabilities of our machine. This would require further study. Significant modifications would definitely be required to the existing equipment. Andritz's recommendation would be to replace the existing press with a new twin wire press.
- A new "heavy duty" press would be required following the twin wire press, prior to a drying system.
- A new pulp drying system would be required to achieve the 90% final dryness.
- A new "Layboy" cutter would be required to accommodate the higher speeds.

Depending on the requirements of the final product, we would also likely need some type of baling/packaging system. I did not discuss this with Andritz.

Andritz will be sending me some additional literature. I will forward copies to you. The individual I spoke with at Andritz is Jim Williams and his phone number is (570) 546-8211.

If you would like me to pursue any of this further, please let me know.

Mark Taylor

JANICE,
PLEASE FILE THIS IN THE LAP MACHINE EQUIP. FILE. THANKS, RB