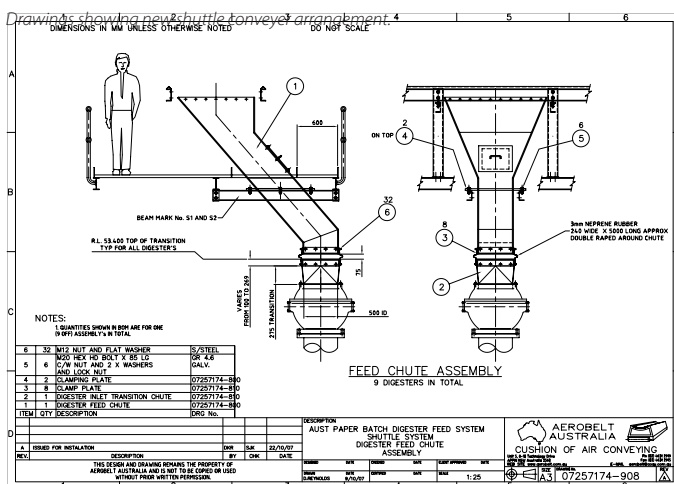


As Australian Paper needed to weigh woodchips to establish a feed rate, Aerobelt quoted on a short roller conveyor, incorporating a belt weigher, an option adopted by Australian Paper.



2 Australian Bulk Handling Review: November/December 2008



Off-site equipment build up.



This has the ability to establish the throughput of woodchips in the system, incorporates an impact section and is positioned above the shuttle system.

To control the reversible movement of the shuttle, Aerobelt designed a haulage system that moves the conveyor backwards and forwards to the desired positions. The design incorporates a positioning system or shaft encoder to monitor the precise location of the shuttle conveyor, allowing it to stop over any one of the digesters needing filled.

As a secondary back-up, limit switches are also used to ensure the correct positions are achieved as, with hourly tonnages of 60 to 95 tonnes, it is vital to ensure that woodchips end up in the digesters and not on the floor.

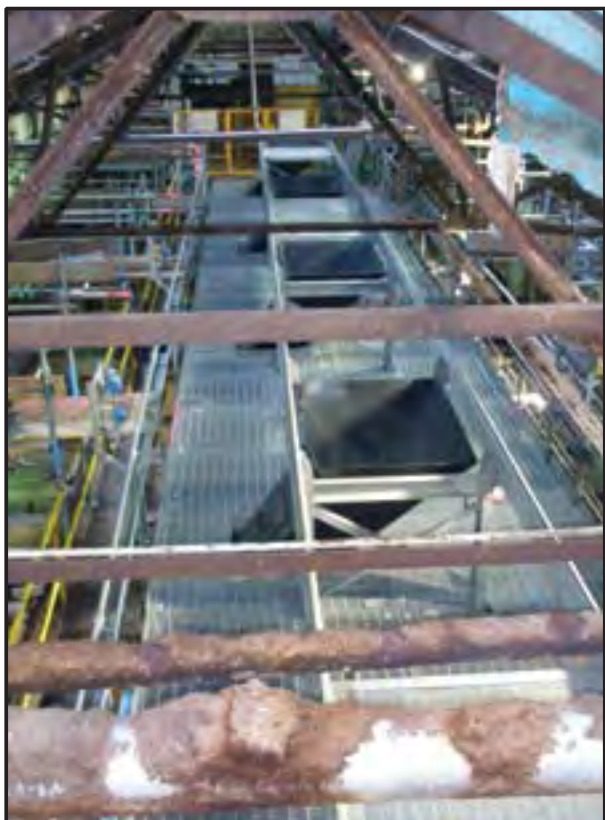
The power supply is on a monorail system hanging from the roof that allows the cables to extend to the maximum



position of 19.8 metres and also retract to a closed position of 1.64 metres.

Due to the corrosive nature of the papermaking process the conveyor had to be all stainless steel 304, with the digester feed chutes made from HDPE.

These allow woodchips to flow in to the digesters, even though the offset nature of the shuttle conveyor and digesters mean they are not in line.



In situ.



CONVEYOR INSTALLATION



In situ.

As a safety feature for operators, Australian Paper would not allow access to the shuttle area due to the possible automatic reversing action of the conveyor and shuttle. In effect, the whole floor had to be inaccessible while the system was in operation.

In practice, gate access is provided to the floor, but, if opened without authorisation, the control system is alerted and the conveyor does not move until reset.

Prior to actual site installation the whole system was built up on the ground, a measure designed to minimise paper production downtime. Next, parts of the plant's walls had to be removed to enable large sections of equipment to be lifted into position and installed in the elevated location in the roof system.

According to Aerobelt the installation and commissioning proceeded to plan, with the new shuttle system running smoothly since mid-2008.