



PROJECT REPORT

DISMANTLING OLD UNITS AND INSTALLING NEW BAC S3000E COOLING TOWERS IN ONLY 5 DAYS!



The Sappi Alfeld mill produces speciality paper products. Five papermaking machines, one off-line coater and numerous reel and sheet cutters form part of the extensive production installations and ensure the mill's manufacturing flexibility which allows it to match customers' needs. The BAC S3000E cooling towers are used for the cold-end of a steam turbine where the manufacturing plants' power is generated.

Customer needs

Scope of works

- * Dismantling of the existing wooden cooling towers
- * Preparing appropriate foundation and steel frame
- * Installation of the new S3000E cooling towers

Timing

- * The cooling interruption time needs to be as short as possible, so a quick disassembly and installation is essential.

BAC's solution

(2) S3E 1222-10P/WH open cooling towers

- 9 MW
- 49°C inlet - 33°C outlet, 22°C wet bulb temperature
- <95 dB (A) sound power level per cooling tower cell

DAY 1 & 2 - DISMANTLING



Dismantling the existing wooden cooling towers.

Removing the plastic fill and disposing of it in a sustainable manner.



Dismantling of the old wooden structure.

Shredding of the wooden waste and disposing it in a sustainable manner.



DAY 3 - INSTALLING THE STEEL FRAME



Final cleaning of the existing concrete basin.

Fixing and alignment of the new steel frame, the foundation of the new cooling towers.



DAY 4 - INSTALLING THE NEW S3000E COOLING TOWERS



Rigging and installation of the new cooling towers consisting of 4 modules each, with a minimum on site assembly time.

Completion of the installing works by installing the fan sections and handrailing around the fan deck perimeter.



DAY 5 - COOLING TOWER START UP



Connecting the pipework and electrical components.

Start-up of the new cooling towers to be back in operation!



The BAC team (5) **dismantled** two wooden cooling towers in 2,5 days. In half a day a steel **foundation** was installed, aligned and anchored. The following day **two new cooling towers** were assembled and completed so that the customer could **start operating the cooling system** by the middle of the 5th day. **Great result performed by a great team.**

