

VENDOR ENGINEERING

MAIN EQUIPMENT

CHIPPER MACHINE: RAUMA, 1.974 (complete spare part bought in 2003)

DIGESTER: 5 batch 110 m³, cladding 22 + 3 mm A-516 Gr 70 + A-340 – 1974 (repaired with welding plasma in 1995)

SCREENING: ALHSTROM, 1994.

WASHING PLAN:

- Vacuum filter. SUNDS DEFIBRATOR, 1992. Model C3570
- D.D.Washer: AHLSTROM, 2002. Second hand. Model DD4060.4LCV

BLEACHING PLAN: D-E₀-D-E-P:

- 5 vacuum filters:
 - o Filter n° 1: SUNDS CCA3550, 1988
 - o Filter n° 2: SUNDS CCA3550, 1989
 - o Filter n° 3: KAMYR/EMUA, 1985
 - o Filter n° 4: KAMYR/EMUA, 1985
 - o Filter n° 5: KAMYR/EMUA, 1985
- 5 MC pumps, KVAERNER, 2004

CLO₂ PLAN: 10 tons/day, EKA CHEMICAL SWP-LITE PROCESS, 2001

DRY MACHINE: FOURDRINIER:

- Head box pressurised, ENERTEC/BELOIT 1990
- Flat table, before 1974 with some later modifications

FIRST/SECOND PRESS: 1974

THIRD PRESS: BELOIT/ENETEC extended nip, 1990

96 DRY CILYNDERS: Different installation years

HOOD: BRUNCHSWEILER 1990

CUTTER LINE: VALMET 1990

BALE LINE: Different installation years

EVAPORATOR (100 tons/hour evaporated water):

- 6 effects, 1974 (at present working each two in parallel)
- 3 falling film effects, 1997, ALFA LAVAL
- 2 super concentrators HPD, 1990

R.B.1: STEIN/COMBUSTION, 1974 – 300 tons/day dry solid, 30 bar (with cascade evaporator)

R.B.2: STEIN/COMBUSTION, 1985 – 180 tons/day dry solid, 30 bar (with cascade evaporator). Second hand.

NATURAL GAS BOILER: BABCOCK-WILCOX 60 tons/hour, 30 bar, 1989

BACK PRESSURE TURBINE: SIEMENS 10.000 Kw, 1990.

LIME KILM: F.L. SMIDTH 1976, modified by AHLSTROM in 1997. Length 50 m, diameter 2,4 m

WASTE WATER TREATMENT:

- Primary clarification, 1957
- Airedated lagoon, 1974
- Secondary clarification and sludge treatment, 2005

N.C.G.T., 2004:

- Digester gases condensed
- Stripping
- Boiler