SUBJECT:	OJIFS KINLEITH #3 CONTINUOUS DIGESTER SPECIFICATIONS

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Note:

Not included in the sales:

Buildings and essential Mill services (air-water-power, etc) including structures supporting the services such as but not limited to pipe bridges, supports, cable trays, etc. To be identified on site.

Motor drives

#3 CONTINUOUS DIGESTER

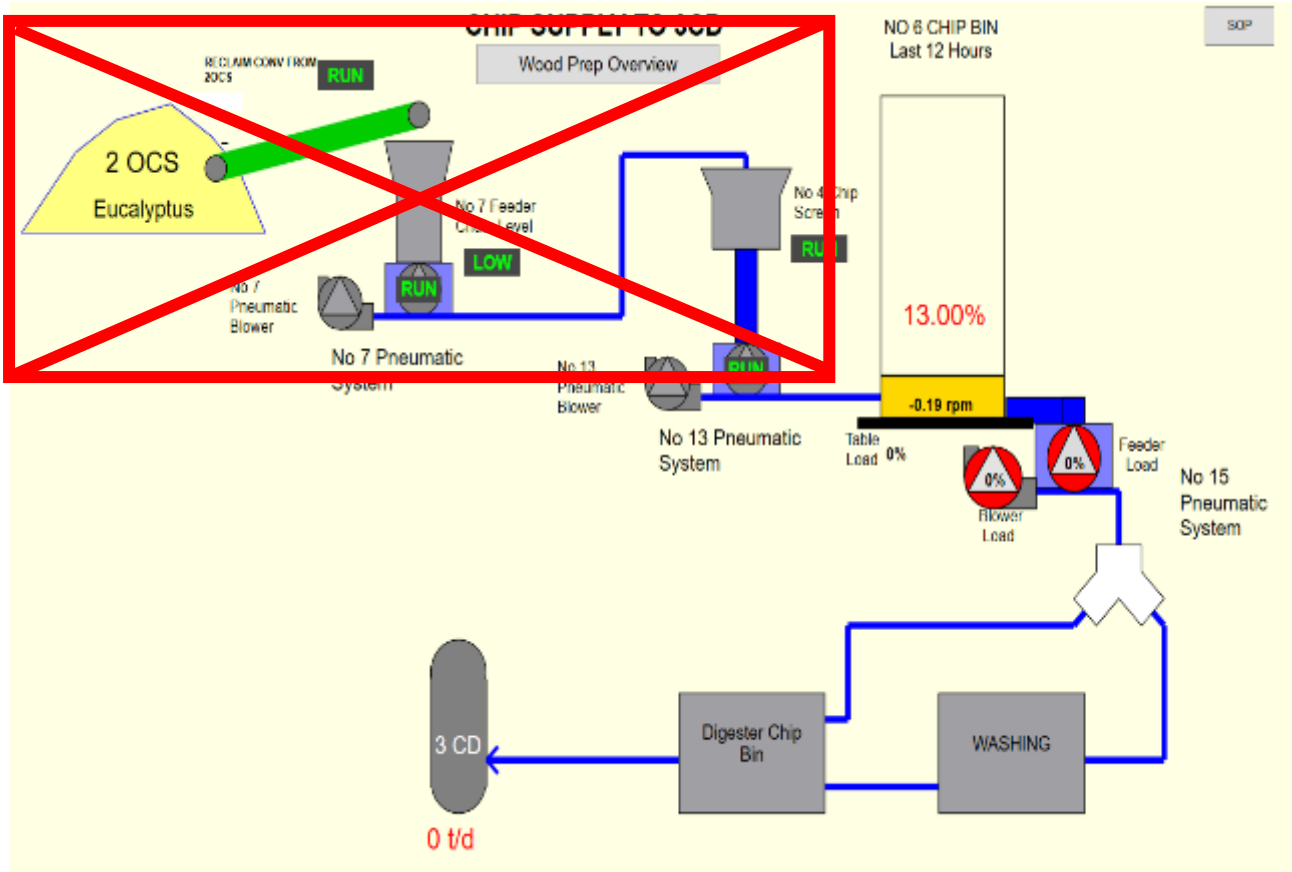
Eucalyptus pulp mill producing 140 ADTPD of kappa 120 using Neutral Sulphite Semi-Chemical process.



BASIS OF DESIGN

Supply:	Eucalyptus Chip
KAPPA range:	120-130
Capacity:	140 Tonnes/Day
Steam:	3 Tonnes/Hour

CHIP SUPPLY



CHIP STORAGE





CHIP BIN VIBRATORS (3 OF 4 INSTALLED)



Motor: GE, 56C 415V/0.37kW/4P (x 3)

BLOWER – PNEUMATIC SYSTEM #15



Blower – Pneumatic System #15

Motor: ASEA, MBRF26 415V/90kW/4P

Blower: HOLMES 821 RBST, Belt Drive

CHIP FEEDER SYSTEM #15



Motor: BROOK CROMPTON, D132S 415V/7.5kW/4P

G/Box: CROFTS MS6 15:1

CYCLONE



Cyclone: RADER PNEUMATICS, Type E 84” Dia

CHIP CHUTE – WASHING OR DIGESTOR



Unit: H. A. SIMONS/NZFP

CHIP WASHING/STEAMING

SCRAP SEPARATOR CHIP WASHING



Motor: CMG, D112M 145V/2.2kW/6P – Belt Drive

G/Box: SALA, TV 50, 15:1

Unit: Defibrilator AB

CHIP WASHER SCRAP TRAP



CHIP WASHING DRAIN SCREW





Motor: CMG, D132S 415/5.5kW/4P – Belt Drive

G/Box: SALA, TV108, 15:1

Unit: Defibrillator AB

WASHED CHIP BIN




Unit: Defibrator AB

Vibrator: VIMARC, BX60-4 415V/1.5kW/4P

STEAMING VESSEL



Vessel: Defibrator AB, 5600 H x 1100/660 Dia

STEAMING VESSEL AGITATOR




Motor: CMG, D160L 415V/15kW/4P – Belt Drive

G/Box: KESTERMAN KCV605X, 140:1

CONTINUOUS DIGESTER

DIGESTER








Vessel: Defibrator AB

Serial: 12454

DOM: 1972

Design Pressure:	171 PSI
Test Pressure	275PSI
Max Temp	375 Deg F

STEAMING VESSEL DISCHARGE SCREW




Motor: CMG, D225S 415V/37kW/4P

G/Box: KESTERMAN BKCH430, 45:1

Unit: Defibrator AB

DIGESTER IMPREGNATOR FEEDSCREW





Motor: ASEA, LAE400L ??V/315kW/

G/Box: KESTERMAN, SB855, 10:1

Unit: Defibrator AB, ADI 12”

IMPREGNATOR DRIVE HYDRAULIC ASSIST UNIT




DIGESTER VERTICAL SCREWS




Motor: CMG, D160L 415V/15kW/4P – Belt Drive

G/Box: KESTERMAN KCV540 90:1

Unit: Defibrator AB

ASPLUND VALVE



DIGESTER DISCHARGE SCREW





Motor: CMG, D225S 415V/37kW/4P

G/Box: KESTERMAN BKCH430, 45:1

Unit: Difibrator AB

DIGESTER BOTTOM DISCHARGE SCRAPER





Motor: CMG, D225S 415V/37kW/4P – Belt Drive

G/Box: KESTERMAN, KCV960, 140:1

Scraping Bearing Lube System

REFINING AND PRESSING

PRIMARY REFINER FEED SCREW CONVEYOR





Motor: CMG, D180L 415V/22kW/4P

G/Box: KESTERMAN, SA225, 7.7:1 – Chain Drive

Unit: Defibrator AB

PRIMARY REFINER





Motor: ASEA, MF630L 3.3kV/1800kW/6P

Refiner: Defibrator AB, L-42

REFINER HYDRAULIC PUMP



DIGESTOR BLOW LINE CYCLONE



Unit: Defibrator AB

PULP CYCLONE DISCHARGE SCREW CONVEYOR



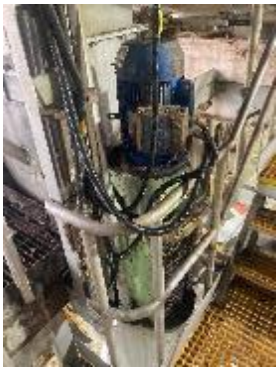


Motor: CMG, D160L-FL 415V/15kW/4P

G/Box: SALA, TV102, Belt Drive

Unit: Fibrilator AB

DISC PRESS No.1 FEED SCREW





Motor: CMG, D132M-FL 415V/7.5kW/4P

G/Box: ELECTROPOWER ESRM2M 71.25:1

Unit: Defibrator AB

DISC PRESS No.1




Motor: CMG, D225S-FL 415V/37kW/4P

G/Box: SUNITOMO CHHJ6215-29, 29:1 – Chain Drive

Press: Defibrator AB, DKP Press

DISC PRESS No.1 HYDRAULIC PUMPS 1 & 2




Motor: CMG, D71 415V/0.37kW/4P (x 2)

Pump: SUNDS, RGP-36 (x 2)

DISC PRESS No.1 GLYCOL PUMP



Motor: CEMP, D63 415V/0.18kW/6P

Pump: LINCOLN QLS 301

DISC PRESS No.1 MIXING SCREW CONVEYOR



Motor: CMG, D132M 415V/7.5kW/4P – Belt Drive

G/Box: SALA, TV 75E, 4.45:1

Unit: Defibrator AB

HD DISC PRESS No.1 PUMP INFEED SCREW



Motor: CMG, D132M 415V/7.5kW/4P – Belt Drive

Screw: KAMYR F-4C – C/W Gearbox VSTV-130, 10.4:1

HD STOCK DISC PRESS No.1 PUMP



Motor: MARATHON, D200L 415V/30kW/4P

G/Box: RADICON 7BU10 9.75:1

Pump: KAMYR K4

DISC PRESS No.2





Motor: CMG, D225S-FL 415V/37kW/4P

G/Box: SUNITOMO CHHJ6215-29, 29:1 – Chain Drive

Press: Defibrator AB, DKP Press

DISC PRESS No.2 HYDRAULIC PUMPS 1 & 2





Motor: CMG, D71 415V/0.37kW/4P (x 2)

Pump: SUNDS, RGP-36 (x 2)

DISC PRESS No.2 GLYCOL PUMP



Motor: CEMP, D63 415V/0.18kW/6P

Pump: LINCOLN QLS 301

DISC PRESS No.2 MIXING SCREW CONVEYOR



Motor: CMG, D132M 415V/7.5kW/4P – Belt Drive

G/Box: SALA, TV 75E, 4.45:1

Unit: Defibrator AB

HD DISC PRESS No.2 PUMP INFEED SCREW



Motor: CMG, D132M 415V/7.5kW/4P – Belt Drive

Screw: KAMYR F-4C – C/W Gearbox VSTV-130, 10.4:1

HD STOCK DISC PRESS No.2 PUMP



Motor: CMG, D200L 415V/30kW/4P

G/Box: RADICON 7BU10 9.75:1

Pump: KAMYR K4

DISC PRESS No.3




Motor: CMG, D225S-FL 415V/37kW/4P

G/Box: SUNITOMO CHHJ6215-29, 29:1 – Chain Drive

Press: Defibrator AB, DKP Press

DISC PRESS No.3 HYDRAULIC PUMPS 1 & 2




Motor: CMG, D71 415V/0.37kW/4P (x 2)

Pump: SUNDS, RGP-36 (x 2)

DISC PRESS No. 3 GLYCOL PUMP



Motor: CEMP, D63 415V/0.18kW/6P

Pump: LINCOLN QLS 301

DISC PRESS No.3 DISCHARGE SCREW





Motor: CMG, D160M 415V/11kW/4P – Belt Drive

G/Box: SALA, TV71, 4.45:1

Unit: Defibrator AB

SECONDARY REFINER BYPASS VALVE



SECONDARY REFINER FEED CONVEYOR



Motor: CMG, D132M 415V/7.5kW/4P – Belt Drive

G/Box: SALA, TV71, 4.45:1

Unit: Defibrator AB

SECONDARY REFINER SCREW FEEDER



Motor: CMG, D112M 415V/5.5kW/4P

G/Box: SUMOTOMO CHHHX-4135-132, 6:1 – Chain Drive

Unit: Defibrator AB

SECONDARY REFINER





Motor: WEG, 500L 3.3kV/1500kW/4P

Refiner: Defibrator AB, L-42

SECONDARY REFINER HYDRAULIC PUMP



SECONDARY REFINER DISCHARGE SCREW CONVEYOR



Motor: CMG, D160M 415V/711kW/4P – Belt Drive

G/Box: SALA, TV71, 4.45:1

Unit: Defibrator AB

PULP OUTFEED

PULP OUTFEED SCREW CONVEYOR





Motor: ABB, D160M 415V/711kW/6P

G/Box: RADICON BU700, 20:1

Unit: Defibrator AB

PNEUMATIC SYSTEM #16 (PULP) FEEDER





PNEUMATIC SYSTEM #16 (PULP) BLOWER #1



Motor: ABB, D315M, 415V/160kW/4P

Blower: ROBUSCHI,

PNEUMATIC SYSTEM #16 (PULP) BLOWER #2



Motor: ABB, D315M, 415V/160kW/4P

Blower: ROBUSCHI,

FILTERS & FOAM BREAKER

LIQUOR FILTER




Motor: ABB, D112M 415V/2.2kW/6P

G/Box: SABRINKS, Worm Drive, 60:1 – Chain Drive

Unit: ABE, 1000 Dia x 1500

ADI LIQUOR SCREEN 716-55-03




LIQUOR TANKS OVERFLOW FOAM BREAKER




Motor: CMG, D200L 415V/18.5kW/6P

PUMPS & AGITATORS

CHIP WASH WATER RECIRCULATION PUMP



Motor: ASEA, D180M 415V/18.5kW/4P

Pump: API-SONNESSON M3X-200/150-19m, 3000l/min

HIGH-PRESSURE COOKING LIQUOR TO DIGESTOR PUMP #1



Motor: NEWMAN, D225M 415V/45kW/2P

Pump: KSB, RPK 50/400– 163M, 15m^3/Hr

HIGH PRESSURE COOKING LIQUOR TO DIGESTOR PUMP #2



Motor: CMG, D225M 415V/45kW/2P

Pump: KSB, RPK 50/400 – 163M, 15m^3/Hr

FRESH WATER BOOSTER PUMP



Motor: BROOK CROMPTON, D180L 415V/15kW/2P

Pump: GOULDS, 3196MT, 10 Inch

LIQUOR TANK TO DISC PRESS NO.1 PUMP



Motor: CMG, D180M 415V/18.5V/4P

Pump: ALLIS CHALMERS PWO 6x4x14

LIQUOR TANK TO DISC PRESS NO.2 PUMP



Motor: WEG, D132M 415V/7.5V/4P

Pump: API SONESSON NA125/100/26

LIQUOR TANK TO DISC PRESS NO.3 PUMP



Motor: CMG, D132M 415V/7.5V/4P

Pump: API SONESSON NA125/100/26

LIQUOR HOLDING TANK RECLAIM PUMP



Motor: CMG, D180L 415V/22kW/4P

Pump: API SONESSON NA125/100/26

RED LIQUOR STORAGE TANK PUMP



Motor: NEWMAN, D200L 415V/22kW/2P

Pump: GOULDS, 3196MT 2x3x8

PINK LIQUOR STORAGE TANK PUMP



Motor: BALDOR, D132M 415V/7.5kW/4P

Pump: GOULDS, 3196MT 4x6x13

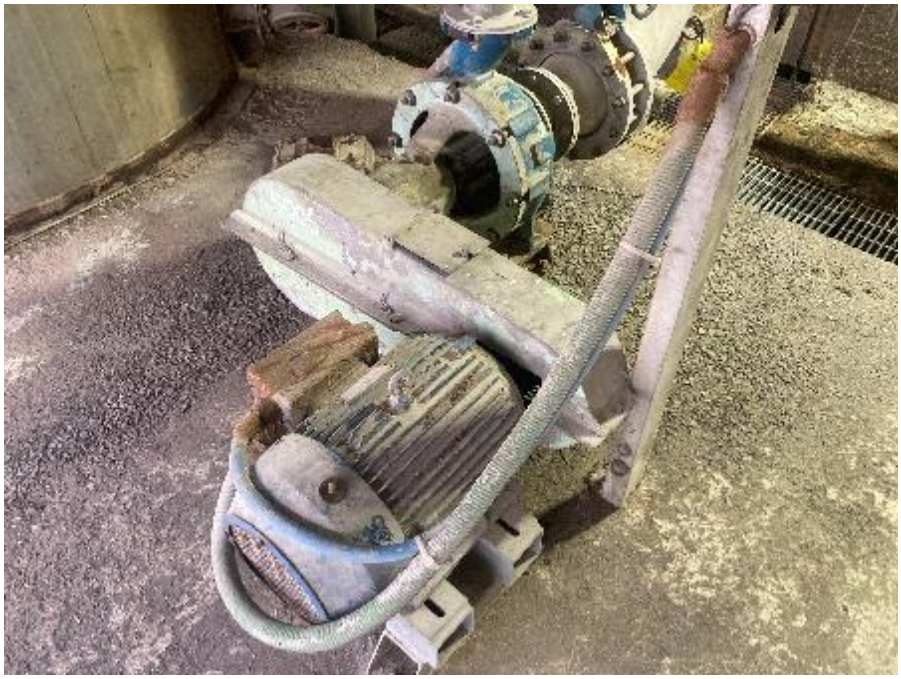
PINK LIQUOR STORAGE TANK AGITATOR



Motor: CMG, D160L 415V/15kW/4P – Belt Drive

Pump: CHEMINEER, 30PB1S

WATER RECIRCULATION SPRAY CONDENSER PUMP



Motor: CMG, D160M 415V/11kW/6P – Blet Drive

Pump: ALLIS CHALMERS PWO 6x4x14

TANKS

RED LIQUOR STORAGE TANK



DOM: 1973

Material: 304SS
Dia: 10360mm
Height: 9144mm
Capacity (Max): 730 Cubic Metres

PINK LIQUOR STORAGE TANK



DOM: 1997
Material: 304SS
Dia: 7925mm
Height: 9144mm
Capacity (Max): 430 cubic Metres

DISC PRESS NO.1 FILTRATE TANK



DOM: 1972
Material: 316SS
Dia: 1400mm
Height: 1150mm
Capacity (Max): 2.6 Cubic Metres

DISC PRESS No.2 FILTRATE TANK



DOM: 1972
Material: 316SS
Dia: 1400mm
Height: 1150mm
Capacity (Max): 2.6 Cubic Metres

DISC PRESS No.3 FILTRATE TANK



DOM: 1972
Material: 316SS
Dia: 1400mm
Height: 1150mm

Capacity (Max): 2.6 Cubic Metres

FILTERED LIQUOR HOLDING TANK



DOM: 1972
Material: 316SS
Dia: 2000mm
Height: 1150mm
Capacity (Max): 6 Cubic Metres

COOKING LIQUOR TANK



DOM: 1972
Material: 316SS
Dia: 1800mm

Height: 3000mm
Volume (MAX): 7 Cubic Metres

AUXILIARY EQUIPMENT

SEAL WATER FILTER



STEAM HEADER





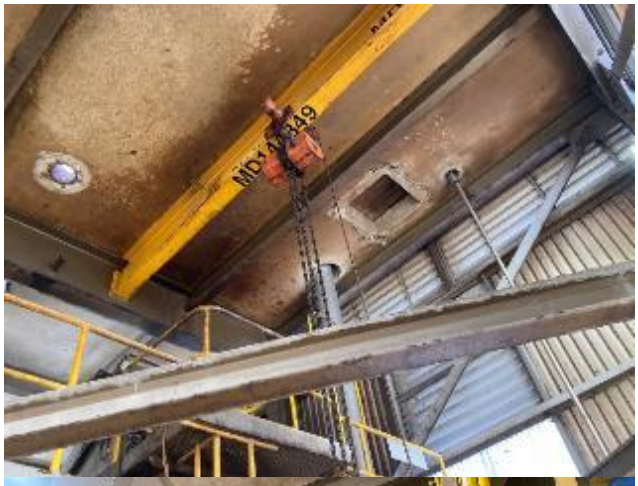
WATER HEATERS



BACK UP COMPRESSOR



CRANES/LIFTING BEAMS





















OIL LUBE SYSTEM



SWITCHROOM



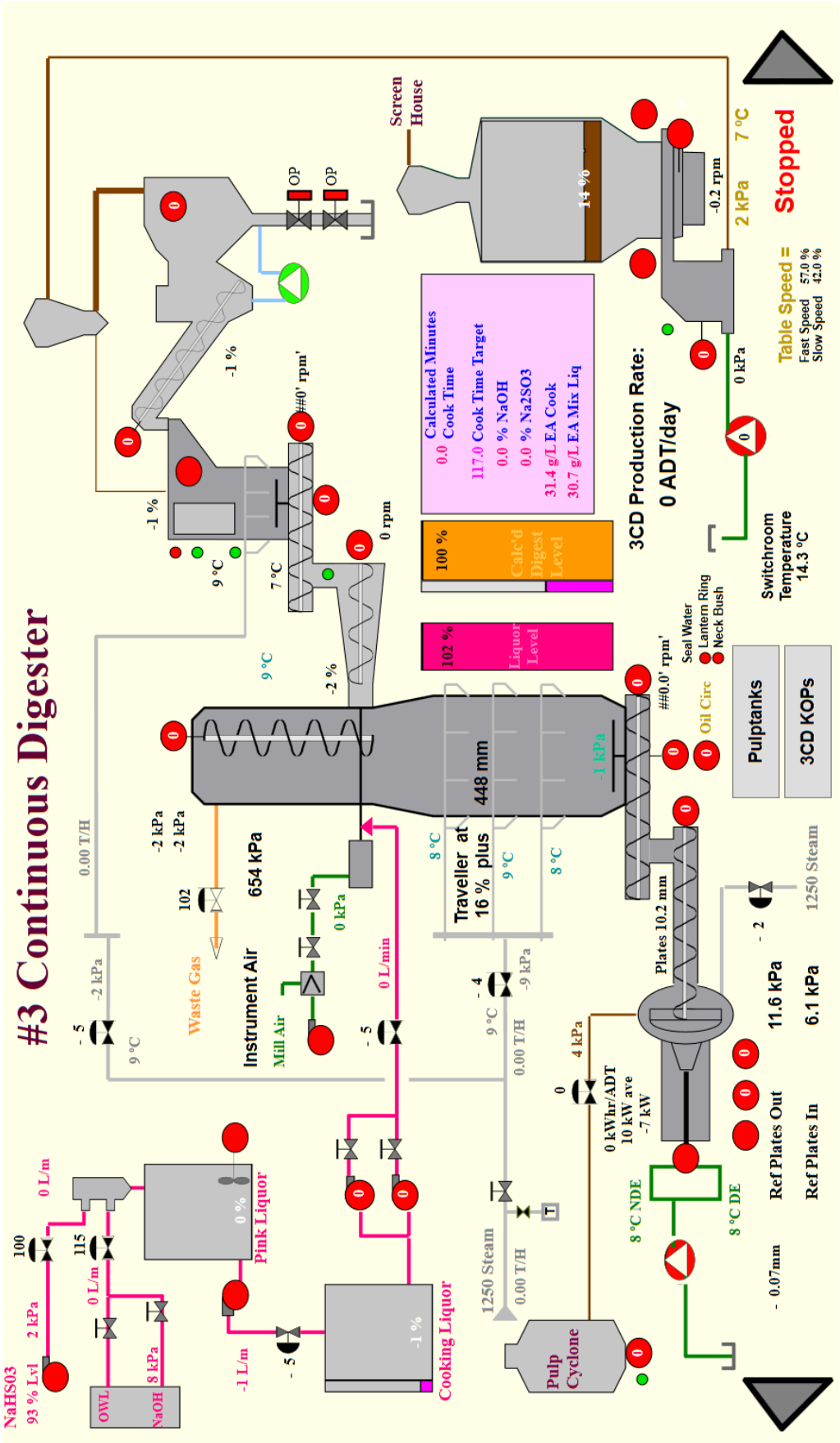

DUST EXTRACTION (DECOMMISSIONED)

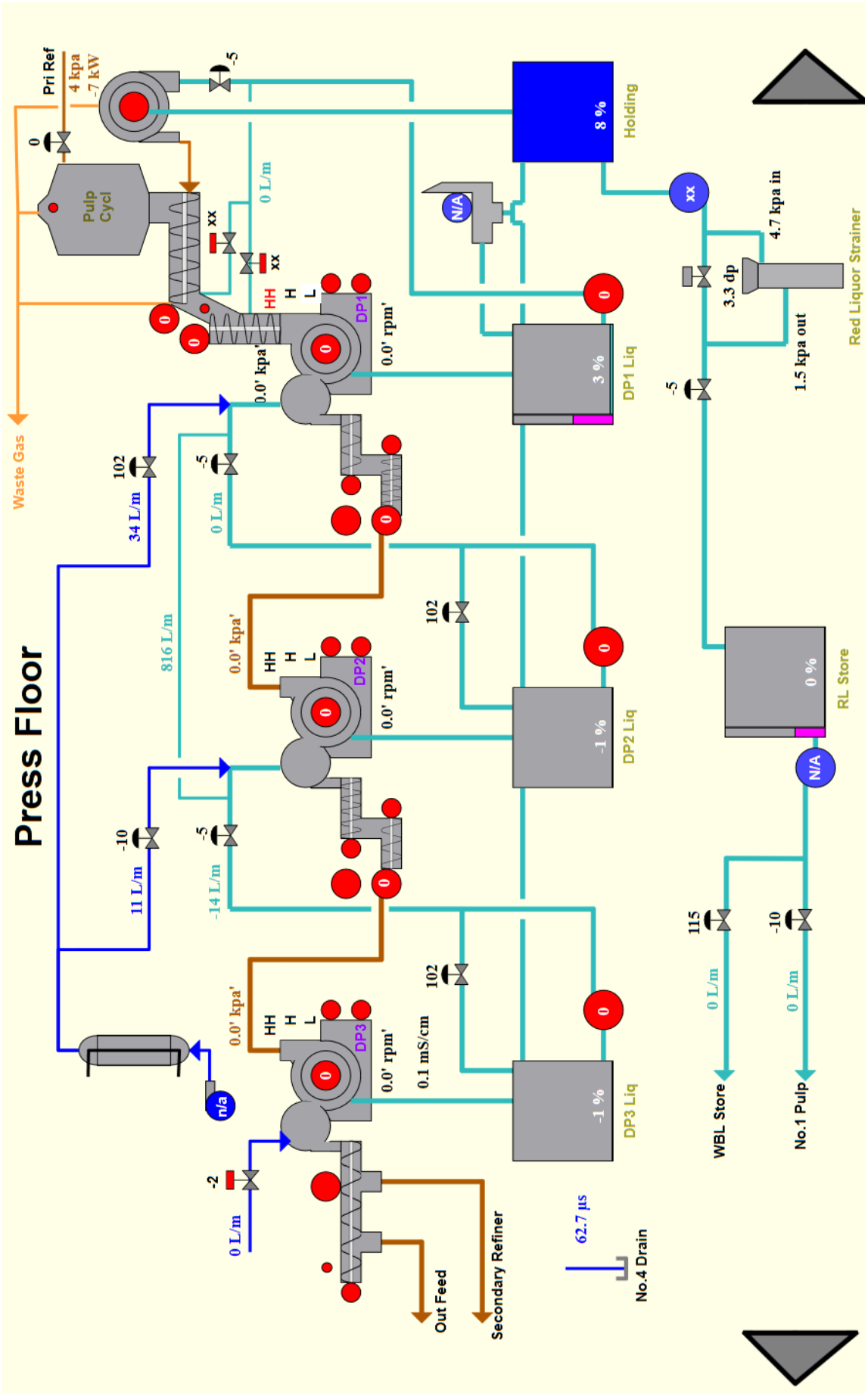


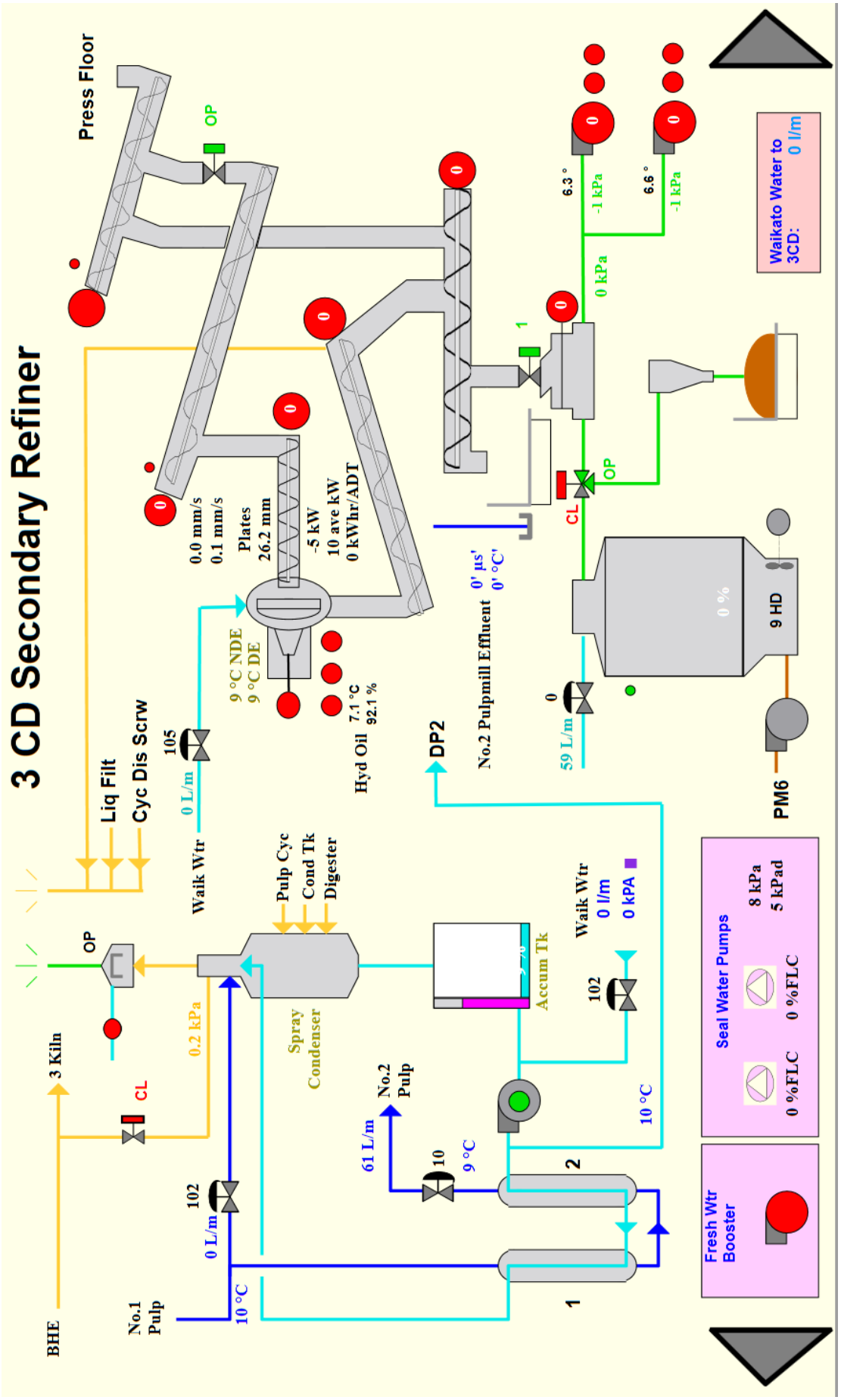
SPECIAL TOOL BOXES




APPENDIX- DSC SCREENS




Press Floor
Pri Ref
4 kpa
-7 kW
Pulp Cycl
Waste Gas
Holding
8 %
Red Liquor Strainer
4.7 kpa in
3.3 dp
1.5 kpa out
DP1
DP2
DP3
HH
H
L
0.0' kpa'
0.0' rpm'
DP1 Liq
3 %
DP2 Liq
-1 %
DP3 Liq
-1 %
RL Store
0 %
816 L/m
34 L/m
11 L/m
-14 L/m
0 L/m
0.1 mS/cm
62.7 µs
No.4 Drain
Out Feed
Secondary Refiner
WBL Store
No.1 Pulp
N/A
n/a


3 CD Secondary Refiner
Press Floor
OP
0.0 mm/s
0.1 mm/s
Plates
26.2 mm
-5 kW
10 ave kW
0 kWhr/ADT
9 °C NDE
9 °C DE
Hyd Oil 7.1 °C
92.1 %
105
0 L/m
Waik Wtr
Liq Filt
Cyc Dis Scrw
DP2
No.2 Pulpmill Effluent
0' µs'
0' °C'
6.3 °
-1 kPa
6.6 °
-1 kPa
0 kPa
Waikato Water to 3CD:
0 l/m
CL
OP
0 %
9 HD
59 L/m
PM6
Pulp Cyc
Cond Tk
Digester
Waik Wtr
0 l/m
0 kPA
102
Accum Tk
OP
0.2 kPa
Spray Condenser
3 Kiln
CL
No.2 Pulp
61 L/m
10
9 °C
10 °C
2
102
0 L/m
10 °C
No.1 Pulp
BHE
1
Seal Water Pumps
8 kPa
5 kPad
0 %FLC
0 %FLC
Fresh Wtr Booster