

19700 kW Biomass Power Plant

[Inventory ID #235826]



- Boiler unit is a Riley type VR boiler continuous rating 170,000 pounds per hour steam at 1280 psig and 955 °F
 - Boiler is top supported with Detroit Hydrograte Stoker
 - Water cooled vibrating grate
 - can burn up to 50% moisture wood chips
 - 4326 btu/lb
 - 59,902 lbs./hr fuel
 - with feed water temperature 402 ° F
- Steam Turbine Generator is General Electric 19700 kw
 - serial number 155030
 - 13 stage condensing unit with four uncontrolled extractions
 - 5596 rpm
 - Turbine and Lufkin Gear box mounted on one skid driving GE 21890 kva
 - 1800 rpm
 - 13800 v
 - 3 phase
 - 60 hz
 - TEWAC
 - Brushless exciter Generator
- Condenser Graham surface condenser
 - 2 in. HgA
 - condensing 126,000 pounds per hour steam
 - 19,770 square feet
 - 316SS tubes
- Cooling Tower Thermal Dynamic Towers 22,000 gpm
- Induced draft 2 cell
- ESP Belco Technologies BT-30
- Substation 15.75/21 MVA
- 34.5 kv Grdy/13.8 kv

- 19 Acre land with well water
- 34.5 kv transmission power line
- Shut down in 2013 maintained to start back-up
- Location: Eastern USA

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