

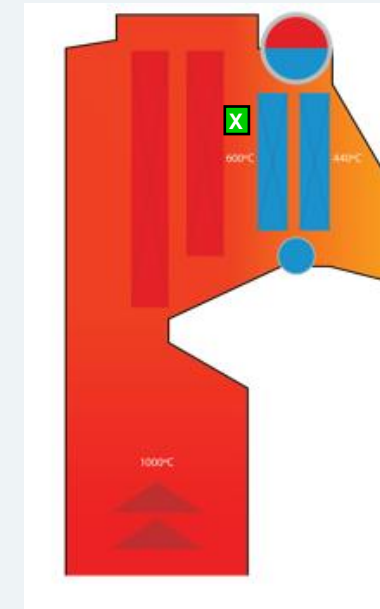
Biomass: Huelva (ES)

Boiler Data and Information on Shock Pulse Generators

- Boiler Design: vertical with two-drums-vertical evaporator and vertical economizer
- Steam Flow: 105 t/h @ 68 bar/ 485°C
- Dimensions: 18.9 m H x 4.5 m W x 10.7m L (excl. economizer in a separate section)
- Fuel / Boiler Type: Biomass/Fluidized bed
- SPG in Operation since: 1 EG10XL from November 2019, upstream of evaporator
- Shock Pulse Interval: 45 minutes SP by DCS activation
- SPG is supporting the original soot blowers

Customer Benefit

- Operator is very satisfied with the SPG
- Cleaning effect sufficient to keep the steady flue gas temperature of approx. 440°C downstream of the evaporator



 Shock Pulse Generator EG10XL at side wall

Plant Supplier:

Different enterprises since the start-up

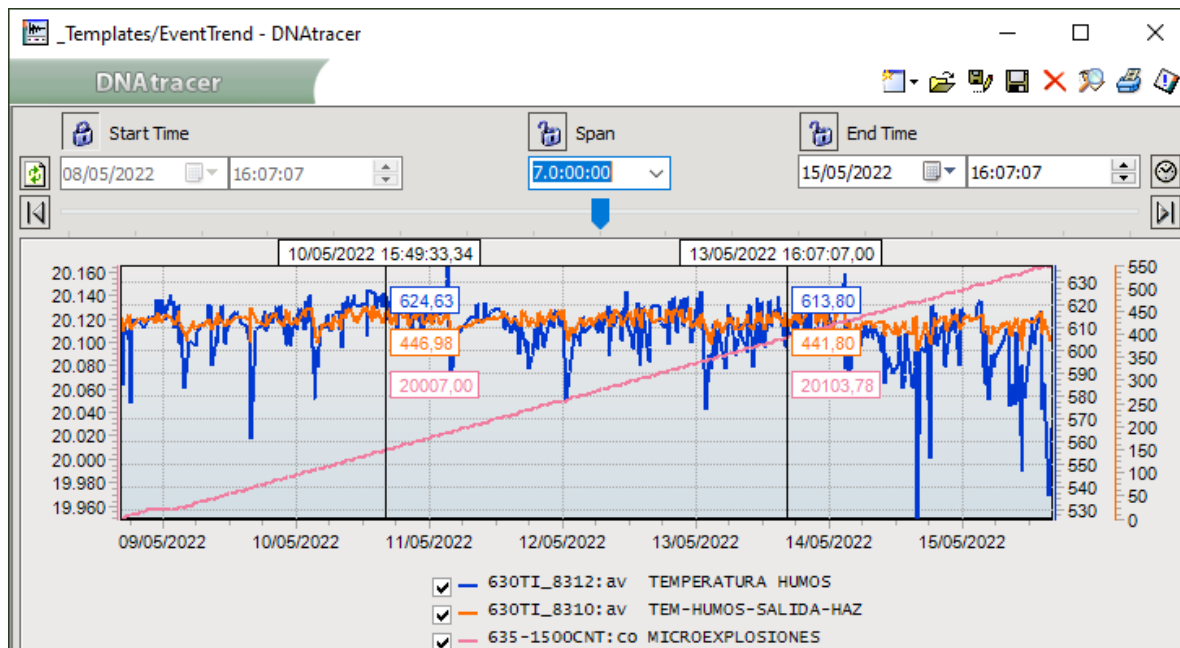
Plant Operator:

Magnon

Equalizing of average flue gas temperature downstream of the evaporator (7-days trend)

The Shock Pulse Generator EG10XL is activated by the DCS in a frequency of 45 minutes. The cumulation trend shows approx. 20.000 SP since the commissioning in 2019

The temperature upstream of the evaporator is highly fluctuating around 600°C (blue curve), whereas the downstream temperature is equalized by 440°C due to the SPG (orange curve).



Day-report of the average flue gas temperature downstream of the evaporator

The temperature upstream of the evaporator is highly fluctuating around 600°C (blue curve), whereas the downstream temperature is equalized by 440°C due to the SPG (orange curve).

The shock-pulse counter shows approx. 20.000 SP since November 2019 (red stepped trend)

