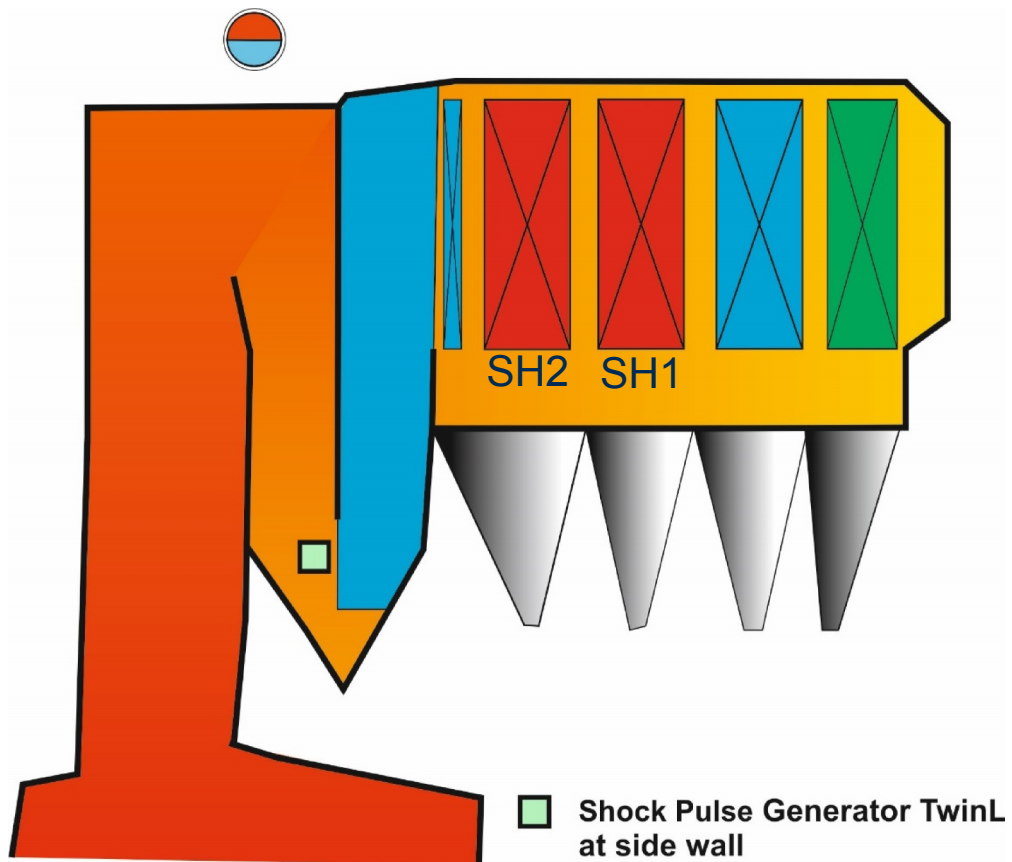


Reference Plant

MSW Boiler Zurich / CH: 1x TwinL



- 52 t/h steam flow, 40 bar, 420°C
- Boiler width 7.2 m
- The 3rd pass contains a separation wall in the middle of the pass
- 1 x Shock Pulse Generator TwinL, since 30.11.2015, at 2nd pass
- Good cleaning effect at 2nd and 3rd pass, significantly lower flue gas temperature at inlet to horizontal pass; reduced fouling at heat exchanger bundles, boiler can be operated in overload easily during high district heat demand
- During maintenance stop: reduced standstill period, less blasting material for disposal
- Plant supplier: ABB Enertech AG
- Plant operator: Fernwaerme Zurich AG

Reference Plant MSW Boiler Zurich / CH: 1x TwinL



The Shock Pulse Generator TwinL is mounted at the 2nd pass and cleans the 2nd and 3rd pass.

Reference Plant

MSW Boiler Zurich / CH: 1x TwinL

Flue gas temperatures after planned shut down

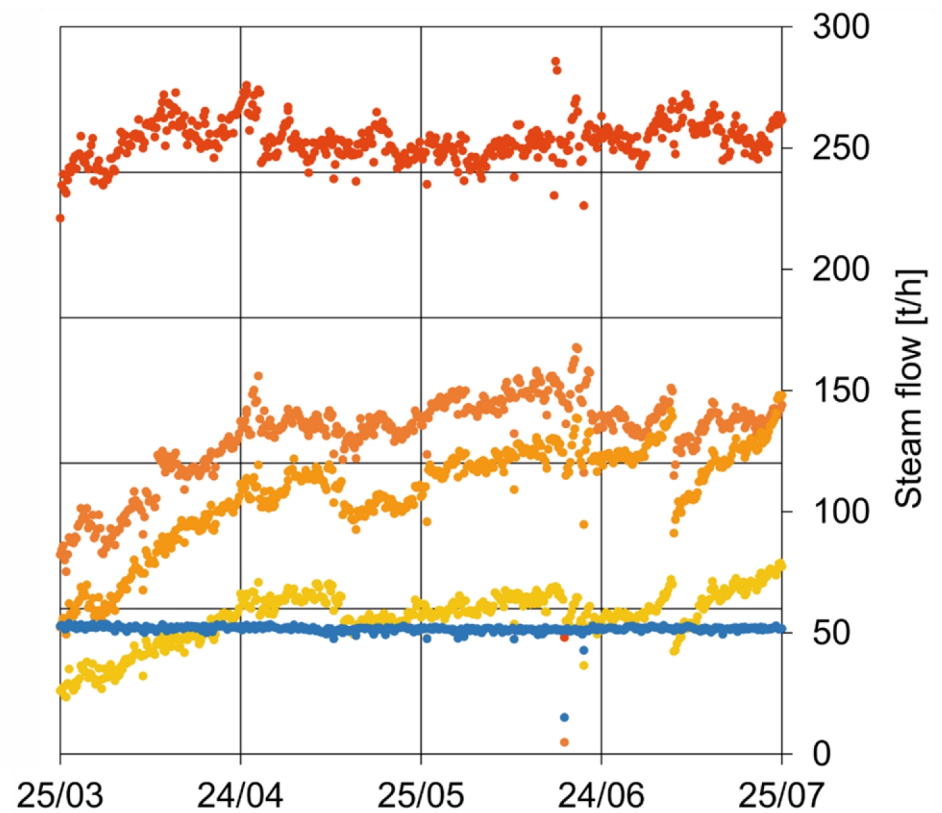
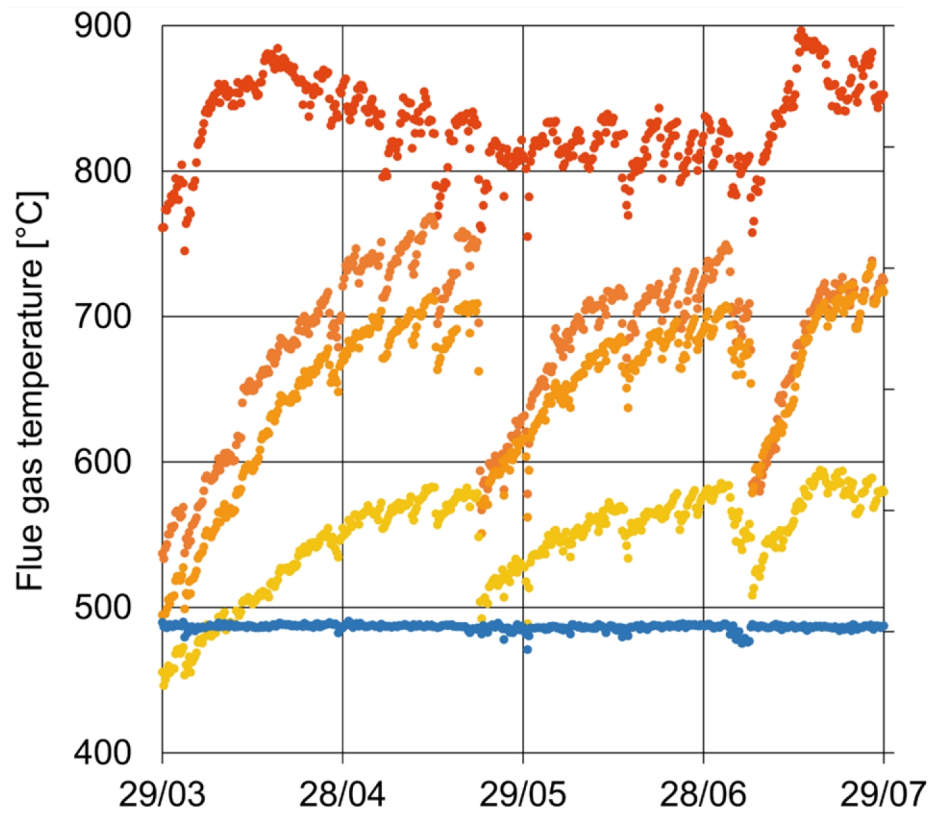


2015:

Shower Cleaning System in empty passes, rapping system in horizontal pass, 5-6 manual online boiler cleaning interventions per year

2016:

TwinL in 2nd pass; SCS stopped, rapping in horizontal pass, 1-2 manual online boiler cleaning interventions per year



• T furnace • T inlet horizontal pass • T before SH2 • T before SH1 • Steam flow