A Case study from Heat Management

SCA Bollstabruk, Sweden

Application: Smoke Tube Boiler
Boiler manufacturer: 2x URBAS
Fuel: Biofuel (bark and wood chips)
Solution: Infrasound cleaning

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General info

Industry: Sawmill
Boiler: 2x URBAS
Capacity: 12 MW_{th}

Infrasound generator

Type: 2x APS150
Location of installation: Between 1st and 2nd tube passes on both boilers
Time of installation: October 2021

Situation description

SCA Bollstabruk has two identical 12MWth grate boilers in operation year-round, with an exception of an annual revision stop when the heat demand can be met with one boiler. The boilers were not equipped with any automatic sootcleaning before the installation of Infrasound Cleaning.

To avoid plugging the tubes, the inlets were cleaned manually every two weeks. In addition, each boiler required an outage for manual cleaning every 6th week.

Infrasound Cleaning was installed to keep the boilers clean throughout the season and in turn reduce the need for manual cleaning.

Results

The installation of two Infrasound Cleaners (see Figure 1) resulted in a prolonged time between manual cleaning outages by 43% for Boiler 1 and 50% for Boiler 2.

The Infrasound Cleaners were activated 1-2 weeks after the boiler start-up. After the next outage for manual cleaning, the Infrasound Cleaners will be activated immediately, and will in turn generate even better results. Infrasound Cleaning is a preventive cleaning method and requires a clean boiler at start-up for full effect. After the next manual cleaning, the time between outages will be prolonged even further.

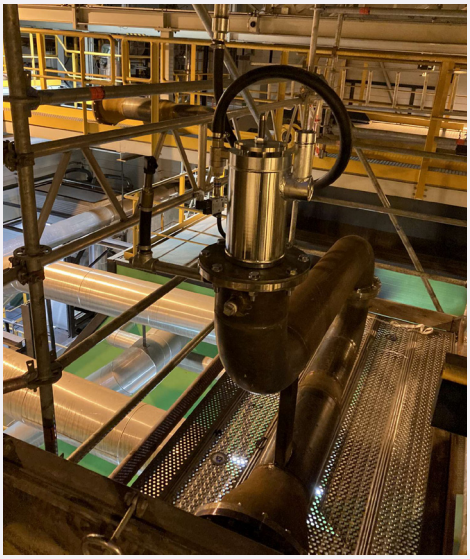


Figure 1 - Infrasound installation



Figure 2 - Infrasound Installation

Heat Management

Heat Management was founded in 2016 following a merger between Infrafone AB and Soottech AB. The purpose of the merger was to create a world-leading cleantech company with a superior product portfolio in energy conversion adapted for industrial boilers and incinerators.

Heat Management's primary customers include power and heat plants as well as pulp mills and marine companies. Today, Heat Management has patented solutions installed in a large number of applications around the world.

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