STEBATEC®
Measure - Control - Regulate

Steam boiler plant of a Swiss railroad operator

From safety inspection to component replacement and commissioning - one contact partner

A well-known Swiss railroad operator maintains several factory buildings and a painting line for trains at the Olten site. These are supplied with decentralized thermal energy via a long-distance pipeline. In the boiler house, which feeds the long-distance pipeline, there are two steam boilers. The two boilers are each equipped with a dual-fuel burner (oil / gas) and together supply 14 MW of heating capacity.

As the supervising company, we continuously monitor the condition of the plant. We check all safety-relevant parameters every six months and suggest maintenance work if necessary. Thus, functional safety, electrical safety and plant availability are monitored by us as the central point of contact. This prevents unnecessary interfaces and simplifies the day-to-day work of the boiler attendants.

Figure 1: Steam boiler plant

During our safety inspection at the beginning of 2020, a defect was detected in a conductivity sensor, which was then replaced in both boilers. The associated evaluation devices were also replaced as a prophylactic measure.

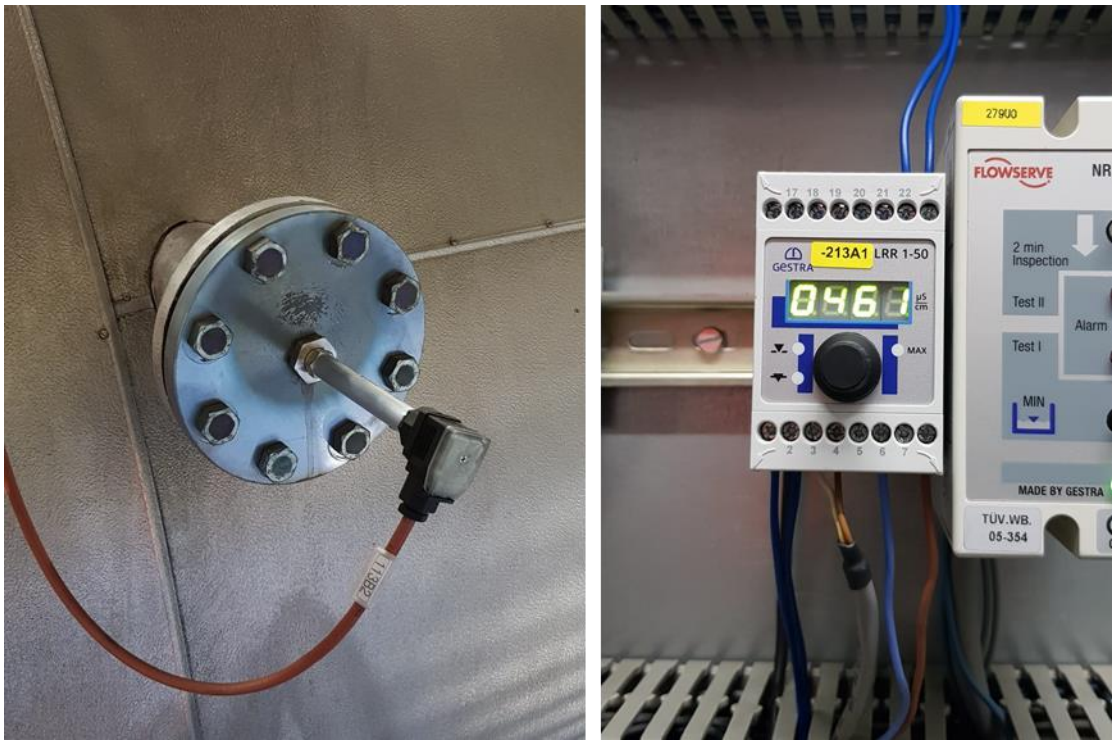

Figure 2: Conductivity probes with analyser.

Furthermore, during the second test in 2020, it was found that one of the safety-relevant sensors did not respond as expected. This even led to a boiler failure during the test. Thanks to a selected stock of spare parts and the profound expertise of the technician, the defective evaluation device was found and replaced within minutes. This prevented a longer-term failure of the boiler.