ANALYSIS OF EXPERIMENTAL RESULTS
OF SONIC CLEANING SYSTEM
IN OIL SHALE BOILER

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The technology of sonic cleaning underwent an extensive development during the last 10-15 years. That technology belongs to the cleaning methods of weak (soft) effect on the boiler construction. It prevents the formation of friable ash deposits. When using sonic cleaning, the sintering properties of ash deposits must be taken into account. The paper deals with some experience of using sonic cleaning system in oil shale-fired power plants of Estonia and explains some theoretical aspects of operating of the sonic cleaning system. The corresponding experiments and calculations were performed or supervised by Department of Thermal Engineering of TUT with co-operation of Narva Power Plants, Ahtme Power Plant, Pentegra Ltd. and Kockum Sonics AB (Sweden).

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