

SYSTEM FOR REMOVING ADHERED ASH FROM BOILER PIPE GROUP

Abstract

A system (1) for removing adhered ash from a boiler pipe group has: soot blowers (3) arranged between a plurality of pipe groups (2); an induced draft fan (13) for inducing exhaust gas downstream from the pipe groups (2); and a control device (4) for controlling the soot blowers (3) and calculating the heat transmittance of the boiler. When the heat transmittance is greater than or equal to a predetermined value, the control device (4) activates the soot blowers (3) once per predetermined interval, and when the heat transmittance is less than the predetermined value, the control device executes an adhered ash assessment process and, in accordance with the result thereof, continuously activates the soot blowers (3). The execution of the adhered ash assessment process involves at least one of the following four conditions: the main steam amount of the pipe groups (2); an exhaust gas pressure difference; the rotation speed of the induced draft fan (13); and the total amount of combustion air supplied to a furnace.

(Fig. 1)