

METHOD FOR REDUCING CORROSION FATIGUE OF EVAPORATING TUBE IN BOILER

ABSTRACT

The purpose of the present invention is to effectively reduce the corrosion fatigue of an evaporating tube in a boiler which occurs in association with a corrosive environment or repeated application of stress due to the presence of scales. A method for reducing the corrosion fatigue of an evaporating tube in a boiler, in which each of the concentration of chloride ions and the concentration of sulfate ions in the boiler water is managed at 10 mg/L or less. It is preferred to manage each of the concentration of chloride ions and the concentration of sulfate ions in boiler water by subjecting boiler feed water to a desalination treatment with an ion exchange device, a reverse osmosis membrane device or an electrodeionization device or by increasing the collection rate of boiler condensed water.

Figure 1