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(54) Title: FLUORESCENT-TAGGED POLYMERS FOR BOILER INTERNAL TREATMENT

(57) Abstract

The invention is a method for determining a concentration of an anionically charged water soluble boiler water treatment polymer in a boiler water system. The boiler water system includes a source of a feedwater stream to the system as a first system parameter, a source of a blowdown stream from the system as a second system parameter, as well as a source of the soluble polymer in the boiler water as a third system parameter. The soluble polymer undergoes a hydrothermal reaction at boiler water system operating conditions. The soluble polymer contains at least 0.01 % mer units of spectrophotometrically emitting moieties bound to the polymer chain. The method comprises the steps of: a) measuring at least one spectrophotometric characteristic of the soluble polymer contained in a sample of the boiler water; b) converting the characteristic to an electrical signal corresponding to the concentration of the soluble polymer in the boiler water; c) comparing the electrical signal corresponding to the concentration of the soluble polymer in the boiler water to an electrical signal corresponding to a desired concentration of the soluble polymer in the boiler water; and then, d) determining a gain or loss of the soluble polymer in the boiler water.

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