

Title (en)

METHOD FOR REGULATING THE OUTPUT OF STEAM GENERATORS FOR GENERATING POWER AND/OR PROVIDING HEAT

Title (de)

VERFAHREN ZUR LEISTUNGSREGELUNG VON DAMPFERZEUGERN ZUR STROMERZEUGUNG UND/ODER WÄRMEBEREITSTELLUNG

Title (fr)

PROCÉDÉ DE RÉGULATION DE LA PUISSANCE DE GÉNÉRATEURS DE VAPEUR DESTINÉS À LA PRODUCTION DE COURANT ET/OU À LA FOURNITURE DE CHALEUR

Publication

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Application

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Priority

EP 2013076142 W 20131210

Abstract (en)

[origin: WO2015086051A1] The invention relates to a method for regulating the output of steam generators for generating power and/or providing heat while taking into consideration the use of steam and/or water-powered cleaning devices while the steam generator is being operated. The method has the step of monitoring steam generator state variables which allow direct or indirect conclusions on the effectiveness and/or the dirt-accumulation state of heating surfaces of the steam generator. The method further comprises the steps of generating an effectiveness prediction using the measured and/or ascertained state variables, generating a load prediction as a function of the power demand and/or the heat demand, generating a prediction of the expected available maximum output of the steam generator as an availability prediction and as a function of the surrounding temperature and/or the fuel quality, and determining an optimal cleaning time as a function of the effectiveness prediction. A target cleaning process which is to be initiated according to the effectiveness prediction is delayed or prevented and/or shortened or prolonged and/or intensified or weakened depending on the load prediction and the availability prediction with the condition that a specified minimum effectiveness of the heating surfaces of the steam generator is not undershot and/or a specified maximally permissible dirt accumulation of the surfaces is not exceeded.

IPC 8 full level

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