

Title (en)

STEAM GENERATION PLANT AND METHOD FOR OPERATION AND RETROFITTING OF A STEAM GENERATION PLANT

Title (de)

DAMPFERZEUGUNGSANLAGE UND VERFAHREN ZUM BETREIBEN UND NACHRÜSTEN EINER DAMPFERZEUGUNGSANLAGE

Title (fr)

INSTALLATION DE PRODUCTION DE VAPEUR ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE INSTALLATION DE PRODUCTION DE VAPEUR ET POUR COMPLÉTER SON EQUIPEMENT

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Application

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Abstract (en)

[origin: WO2006131283A2] The invention relates to a steam generation plant, comprising a steam generator (1) with a combustion chamber (8), an evaporator, a superheater (9), an intermediate superheater (12), a condenser (14), a feed water preheater (16, 19, 19') regeneratively heated by steam, a steam turbine set (2) with a high-pressure section (4), a medium pressure section (5) and a low-pressure section (6), a flue gas line (22), connected to the combustion chamber (8), an air supply line (21), for the supply of combustion air to the burner in the combustion chamber (8) and an air preheater (3) with flue gas and combustion air passing therethrough. An air line (23) branches off from the air supply line (21) downstream of the air preheater (3) in said steam generation plant and supplies an air-fractionation unit (25). Air coolers (34, 35) are arranged in the air line (23) through which the condensate or feed water from the condensate/feed water circuit from the steam generator (1) flows. The oxygen output from the air fractionation unit (25) is connected to the burner of the combustion chamber (8) by means of an oxygen line (26).

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