

Title (en)
POWER PLANT AND METHOD OF OPERATING A POWER PLANT

Title (de)
KRAFTWERK UND VERFAHREN ZUM BETRIEB EINES KRAFTWERKS

Title (fr)
CENTRALE ET PROCÉDÉ D'EXPLOITATION DE CELLE-CI

Publication
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Application
EP 11776527 A 20110707

Priority
IB 2011002321 W 20110707

Abstract (en)
[origin: WO2013005071A1] A fossil fuel fired power plant (PP) can provide an improved dynamic response by means of condensate stop and optionally with indirect firing. The power plant (PP) having a water steam cycle comprises six condensate preheaters (21 -26) arranged in series for the preheating by heat exchange with steam extracted from the steam turbines (7-10). Steam extraction lines (23'-26') have a quick-action valve (23"-26") able to stop the extraction steam flow, whereby the additional steam flowing through the turbines enables a large load increase up to 10% within a short time of 10 seconds. In case of a coal-fired power plant (PP), the power plant (PP) comprises a supply silo (45) for pulverized coal that enables a quick increase in supply rate of coal to the boiler (1) and of the firing rate. This allows the load increase to be maintained over a longer time period.

IPC 8 full level
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