

Title (en)  
POWER PLANT AND METHOD FOR ITS OPERATION

Title (de)  
KRAFTWERK UND BETRIEBSVERFAHREN DAFÜR

Title (fr)  
CENTRALE ÉLECTRIQUE ET SON PROCÉDÉ D'UTILISATION

Publication  
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Application  
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Abstract (en)  
[origin: WO2019166839A1] The invention relates to a power plant adapted for primary frequency control operation including an improved condensate throttling/stop method, the latter extendable into a secondary frequency control period. The power plant comprises a dry cooling system (80) equipped with a direct contact condenser (56), and a storage tank (72) applied for draining of air coolers (71) of the dry cooling system (80). The invention makes use of the existing construction and arrangement of the dry cooling system (80) with additions and modifications of its elements and its operational characteristics, in order to improve frequency control capabilities. These elements include a discharge line with a discharge control valve (73) leading from the dry cooling circuit to the storage tank (72) for avoiding an increase of water level in a hotwell (57) of the direct contact condenser (56) above an allowable maximum level during a condensate throttling/stop phase, and a refilling pump (75) adapted for contributing to reinstate a water level in a feedwater tank (4) via the direct contact condenser (56) and the dry cooling circuit by pumping water from the storage tank (72) after condensate throttling/stop phase is terminated. The invention also relates to a method for operating the power plant.

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