Title (en)

METHOD AND INSTALLATION FOR DECREASING THE LOSSES WHEN STARTING AND SHUTTING OFF A THERMAL STATION, AND TO INCREASE THE POWER AVAILABLE AND TO IMPROVE THE CONTROL CAPACITY IN A THERMAL STATION

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Application

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Priority

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Abstract (en)

[origin: US4549401A] PCT No. PCT/EP81/00204 Sec. 371 Date May 13, 1983 Sec. 102(e) Date May 13, 1983 PCT Filed Dec. 23, 1981 PCT Pub. No. WO83/01090 PCT Pub. Date Mar. 31, 1983.In a method for reducing the start-up and stabilization period losses, for increasing the usable power and to improve the controllability of a thermal power plant, there are integrated into the power plant's steam cycle pressurized heat storage reservoirs which are charged by feeding them with excess heat produced in the said power plant as, for example, during the start-up and load stabilizing periods or during periods of reduced electrical power production and, when there is an increased demand for heat, the said heat storage reservoirs are discharged by the release of stored heat into the water-steam cycle. Control deviations in the electrical power while the power plant is in full operation are counterbalanced by changes in the charging and discharging streams of the pressurized heat storage reservoirs. In the apparatus for carrying out this method, pressurized heat storage reservoirs are connected, on the water-side, to the condensate system and, on the steam side, to the medium pressure of intermediate superheater network of the steam cycle or also to the power plant's medium pressure or low pressure turbine extraction points.

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