

Title (en)

METHOD FOR TESTING AN OVERSPEED PROTECTION SYSTEM OF A SINGLE-SHAFT UNIT

Title (de)

VERFAHREN ZUM TESTEN EINER ÜBERDREHZAHLSCHUTZEINRICHTUNG EINER EINWELLENANLAGE

Title (fr)

PROCÉDÉ POUR TESTER UN DISPOSITIF DE PROTECTION CONTRE LE SURRÉGIME D'UNE INSTALLATION MONO-ARBRE

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Application

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Abstract (en)

[origin: WO2015039907A2] The invention relates to a method for testing an overspeed protection system of a single-shaft unit (1) which comprises a gas turbine (2), a generator (4) and a steam turbine (3) and which has a coupling (7) by means of which the steam turbine can be coupled to the single-shaft unit (1), comprising the steps: a) disengaging the coupling (7); b) operating the gas turbine (2) and the steam turbine (3) at the rated speed of the gas turbine and the steam turbine; c) increasing the mass flow rate of the steam introduced into the steam turbine (3) in such a way that the speed of the steam turbine (3) reaches a steam turbine threshold speed, the overspeed protection system being arranged in such a way that a first overspeed protection is initiated as soon as the speed of the steam turbine (3) reaches the steam turbine threshold speed; d) testing whether the first overspeed protection is initiated.

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