

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

Publication

EP 3022401 B1 20170830 (DE)

Application

EP 14766939 A 20140908

Priority

- EP 13184828 A 20130917
- EP 2014069067 W 20140908
- EP 14766939 A 20140908

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.

IPC 8 full level

F01D 21/00 (2006.01); **F01D 21/02** (2006.01)

CPC (source: EP)

F01D 21/003 (2013.01); **F01D 21/02** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2848775 A1 20150318; EP 3022401 A2 20160525; EP 3022401 B1 20170830; KR 101849864 B1 20180417; KR 20160055879 A 20160518; PL 3022401 T3 20180228; WO 2015039907 A2 20150326; WO 2015039907 A3 20150514

DOCDB simple family (application)

EP 13184828 A 20130917; EP 14766939 A 20140908; EP 2014069067 W 20140908; KR 20167009642 A 20140908; PL 14766939 T 20140908