

Final Draft International Standard IEC 61400-27-1

Electrical simulation models of wind turbines

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Abstract— The new IEC 61400-27-1 standard for electrical simulation models of wind turbines is expected to be published by the end of 2014. The purpose of the IEC 61400-27 series is to provide dynamic wind power plant models for power system stability studies. This paper presents the latest and expected final changes in the Final Draft International Standard (FDIS). Those changes include the modelling of grid protection system, aerodynamics, reactive power capability, generator reference frame rotation, frequency measurement and power plant controller. The paper will also describe the alignment of the IEC models with the similar Western Electricity Coordinating Council (WECC) models, and the inclusion of the IEC models in a future IEC standard for Common Information Model (CIM) for Dynamics Specification.

Electrical simulation model; IEC standard; grid protection system; aerodynamics; reactive power capability; generator reference frame rotation; frequency measurement; Common Information Model.

I. INTRODUCTION

The new IEC 61400-27-1 standard for electrical simulation models of wind turbines [1] is expected to be published by the end of 2014. The purpose of the IEC 61400-27 series is to provide dynamic wind power plant models for power system stability studies. So far, the progress in the work has already been presented in previous Wind Integration Workshop (WIW) 2011 and 2012.

This paper presents the Final Draft International Standard (FDIS) of IEC 61400-27-1, which is currently circulated among the national standard organisations. The paper focuses on the major changes which have been included in the FDIS compared to the Committee Draft for Voting (CDV) circulated in November 2013.

Chapter II describes the major changes in the wind turbine models:

- A. Detailed specification of a model for grid protection system.
- B. Update of the aerodynamic model to become more end-user friendly.

- C. Inclusion of more details limiting the reactive power capability.
- D. Detailed specification of the model for reference frame rotation between generator and grid coordinates.
- E. Inclusion of a method to simulate the frequency measurement at the wind turbine terminals.
- F. Revision of type 1 and type 2 models to ensure compatibility with WECC models [3].

Chapter III describes the changes in the plant controller models, which are included in an informative annex of IEC 61400-27-1.

Chapter IV describes the use of the models in future standards for Common Information Model (CIM) for Dynamics Specification.

Finally, the conclusions are provided in Chapter V.

II. WIND TURBINE MODELS

A. Grid protection system

Conventional grid protection systems are characterized by a set of protection levels and a corresponding set of disconnection times, e.g. as defined and tested in IEC 61400-21 [4]. Such definite time protection is usually available as build-in models in power system simulation software.

For wind turbines, the protection system is often derived from the fault-ride-through characteristics, which are given as piecewise linear characteristics as shown in Figure 1. Definite time protection models are not feasible to represent such protection system characteristics.

Therefore, IEC 61400-27-1 includes a new model for grid protection, where user-definable curves can be entered to define piecewise linear relations between voltage dip level and disconnection time. This model is used for under-voltage, over-voltage, under-frequency and over-frequency protection.

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