INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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IEC 61400-12-1
Edition 2.0 2017-03

WIND ENERGY GENERATION SYSTEMS –
Part 12-1: Power performance measurements of electricity producing wind turbines

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SYSTEMES DE GENERATION D'ENERGIE EOLIENNE –
Partie 12-1: Mesures de performance de puissance des éoliennes de production d'électricité

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

E.2.3 Basis for the uncertainty assessment

Replace the existing Equation (E.8) by the following new equation:

$$u_{\mathrm{AEP}}^2 = N_{\mathrm{h}}^2\left(\sum_{i=1}^{N} f_i^2\left(s_{\mathrm{P},i}^2 + c_{\mathrm{V},i}^2 s_{\mathrm{SC},i}^2\right) + \left(\sum_{i=1}^{N} f_i \sqrt{u_{\mathrm{P},i}^2 + c_{\mathrm{V},i}^2 u_{\mathrm{V},i}^2 + c_{\mathrm{T},i}^2 u_{\mathrm{T},i}^2 + c_{\mathrm{B},i}^2 u_{\mathrm{B},i}^2 + c_{\mathrm{RH},i}^2 u_{\mathrm{RH},i}^2 + c_{\mathrm{V},i}^2 u_{\mathrm{M},i}^2}\right)^2\right) \quad \text{(E.8)}$$

E.13.10 Combining uncertainties in the wind speed measurement from REWS due to wind veer across the whole rotor $u_{\mathrm{REWS,veer,i}}$

Replace the existing Equation (E.51) by the following new equation:

$$c_{m,i} = \frac{\partial v_{\mathrm{eq},i}}{\partial \varphi_{m,i}} = \sin(\varphi_{m,i})\cos^2(\varphi_{m,i})\frac{A_m}{A}\frac{v_{m,i}^3}{v_{\mathrm{eq},i}^2} \quad \text{(E.51)}$$

I.4 Classification of cup and sonic anemometers

Replace the existing Equation (I.4) by the following new equation:

$$u_{v2\,j} = (0{,}05\ \mathrm{m/s} + 0{,}005 \times U_j) \times k / \sqrt{3} \quad \text{(I.4)}$$