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Errata to IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

IEEE Standards Coordinating Committee 21

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Correction Sheet
4 June 2018

Replace Table 23 with the following (please note that a subtraction symbol now replaces an erroneous addition symbol in the operation for high-frequency conditions equation):

Operation for low-frequency conditions	Operation for high-frequency conditions
$p = \min_{f < 60 - db_{UF}} \left\{ p_{pre} + \frac{(60 - db_{UF}) - f}{60 \cdot k_{UF}}; p_{avl} \right\}$	$p = \max_{f > 60 + db_{OF}} \left\{ p_{pre} - \frac{f - (60 + db_{OF})}{60 \cdot k_{OF}}; p_{min} \right\}$

Change the following in the variable list that follows Table 23:

where

- p is the active power output,¹ in p.u. of the DER nameplate active power rating
- f is the disturbed system frequency in Hz
- p_{avl} is the *available active power*, in p.u. of the DER rating
- p_{pre} is the pre-disturbance active power output, defined by the active power output at the point of time the frequency exceeds the deadband, in p.u. of the DER rating
- p_{min} is the minimum active power output due to DER prime mover constraints, in p.u. of the DER active power rating in kW
- db_{OF} is a single-sided deadband value for high-frequency ~~and low frequency, respectively~~, in Hz
- db_{UF} is a single-sided deadband value for ~~high frequency and low frequency, respectively~~, in Hz
- k_{OF} is the per-unit frequency change corresponding to 1 per-unit power output change (frequency droop), unitless
- k_{UF} is the per-unit frequency change corresponding to 1 per-unit power output change (frequency droop), unitless

¹ Includes positive and negative active power for Energy Storage DER during low- and high-frequency conditions respectively. Use of alternate control means to meet this requirement is permitted.