SHAMS DUBAI

CORRIGENDA FOR VERSION 1.2 (PARTIAL RECONCILIATION WITH VERSION 2.0)

STANDARDS FOR DISTRIBUTED RENEWABLE RESOURCES GENERATORS CONNECTED TO THE DISTRIBUTION NETWORK

MARCH 2016

In March 2016 DEWA has published version 2.0 of the Standards for Distributed Renewable Resources Generators Connected to the Distribution Network (in the following just referred as "Standards"). Compared to the previous version (1.2, published in October 2015), the new version includes the following clarifications or changes:

1. Sections 2.4.2 (note to tables 9a and 9b) and D.1.3.2 and D.2.3.2: some interface protections available in the market are not equipped with a 10 minutes average overvoltage stage. An additional overvoltage stage (named now 59-1) may then be used, set to a threshold still compliant with EN 50160 (1.1 Vn) but with the maximum delay available (90 s, considering the protections have typically a range up to 100 s). This is anyway aligned with the regulation criteria in DEWA network, where, yet in compliance with the EN 50160 Standard, the practice is to regulate the voltage not to exceed 1.05 p.u., both in medium and low voltage distribution networks. The set time should be anyway sufficient for the voltage regulators (on load tap changers or also local regulation with reactive power absorption) to act as to reduce the voltage within the threshold of 1.1 Vn. Voltage regulation step for 59 function has also been lowered to 0.01 p.u. in place of 0.05 p.u.; to cater for the new alternative stage of overvoltage protection, the 59 stages have been renamed. In fact, 59-1 is now the stage accepted as an alternative to 59-Av and 59-2 is the stage which was formerly called 59-1;

2. Table 9c: Typical settings to LOM protection functions have been suggested;

3. Sections D.1.3.5 and D.2.3.5: time delay for LOM protections specification has been removed, as both ROCOF and Vector Shift will use a measurement of the period of the mains voltage cycle to detect either a rapid change in frequency or a shift in the voltage vector;

4. Section C.2: Severity level ≥ 3 has been specified for IEC 61701;

5. Table D.3: typos have been amended;

Disclaimer: this document is published only to help reconcile version 1.2 with version 2.0. Manufacturers, consultants, contractors and any other concerned party shall rely entirely on version 2.0 (and successive updates) going forward.