1. Objective

This Standards Alert is to clarify the requirements for dual and single battery strings in substations where there are EQL connection assets to direct market participants.

2. Introduction

Revisions are required to the Energex and Ergon Substation Design Standards for DC Supply Systems to align with STNW1175/RED01807 Standard for Connection of Embedded Generating Systems to a Distributor’s HV Network.

3. Provision of Dual Battery Strings

In EQL substations equal to and above 66kV and for connection assets to direct market participants at lower voltages where the generator meets the requirements of Class B according to STNW1175/RED01807 the DC supplies for duplicated primary protection schemes shall be provided by two independent DC Systems (i.e. X DC System, Y DC System).

4. DC System Design Topology

The design topology requirements of RED693 or STNW3022 are to remain unchanged until an EQL DC Systems review is completed in 2020.
5. Contract Items
Until an EQL wide DC systems contract is in place the contract items on the existing Energex or Ergon period contract items are to be used.

Refer to the Consolidated Plant Listing for additional details.

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<th>TSD079d</th>
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<td>Energex</td>
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<td>Substation Battery and Chargers Selection Guide</td>
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6. Update to Manuals
During 2020 EQL Substations Standards plan to merge the requirements of RED 693, Standard Network Building Blocks - Substations and STNW3022, Substation Standard for DC Supplies. The changes here will be included in the merged document.

7. Further Information
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