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|  |  | Date: |
|  |  | XXXX |
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|  |  | Enquiries: |
|  |  | Tel +27 XX XXX XXXX |
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Dear

**CONFIRMATION OF ADHERENCE TO TESTING AND STANDARDS FOR SOLAR PV AND BESS INSTALLATION**

We hereby confirm that the **inverters** proposed by for the Solar Photovoltaic (PV) and Battery Energy Storage System (BESS) installation at Santiago and Hamilberg Farm fully comply with the following type tests and standards.

1. **Compliance with Type Tests:**
   1. SANS 62109-2:2020
      1. Load transfer test
      2. Blanketing test
      3. Electrical ratings tests
   2. SANS 60146-2:1999
      1. Visual inspection
      2. Checking auxiliary devices
      3. Insulation test
      4. Checking the protective devices
      5. Light load and functional test
      6. Rated output test
      7. Overcurrent test
      8. Temperature rise test
      9. Power loss determination
      10. Measurement of THD for voltage and current
      11. Measurement of power factor
      12. Checking of automatic control
      13. Short circuit test
      14. Measurement of ripple voltage and current
      15. Measurement of audible noise
      16. Immunity test

The proposed inverters have undergone the specified type tests to confirm their compliance with the relevant South African National Standards. Should type test certificates be required, Eskom will have access to these documents through the respective product OEM, provided by .

**2. Compliance with Standards:**

1. SANS 60364-7-712:2018: Low voltage electrical installations. Part 7-712: Requirements for special installations or locations - Solar photovoltaic (PV) power supply systems.
2. IEC 62109: Safety of Static Inverters.
3. IEC 61727: Characteristics of the Utility Interface.
4. IEC 62116: Testing procedure of Islanding Prevention Methods for Utility-Interactive Photovoltaic Inverters.
5. IEC 62103: Electronic equipment for use in power installations.
6. SANS 62109-2:2020: Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverter.
7. IEC 61000-6-1/2: EMC Immunity.
8. IEC 61000-6-3/4: EMC Emission.
9. NRS 097-2-1:2024 Edition 3: Small-scale Embedded Generation, Utility Interface.
10. SANS 60146-2:1999: Semiconductor convertors - Part 2: Self-commutated semiconductor converters including direct d.c. converters.

The adherence to these standards ensures a high level of system integrity, safety, and performance.

Should you require further information or documentation regarding these tests and standards, please do not hesitate to contact us.

Yours sincerely,

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