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**LETTER OF OPINION  
ElectroMagnetic Compatibility**

**Certificate Issued to:**

*Certificate Holder:* **Schneider Electric Solar Inverters USA, Inc.**

**3700 Gilmore Way  
Burnaby, BC V5G4M1  
Canada**

*Application ID:* **97944-16-MS**

**Product Identification:**

*Model Number(s):* *Device Name(s):*  
**Conext Core XC680 PV Inverter**  
**Conext Core XC630 PV Inverter**  
**Conext Core XC540 PV Inverter**

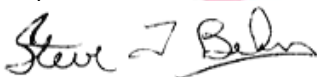
**Assessment Scope and Summary:**

<i>Requirements:</i>	<i>Standards</i>	<i>Result of Evaluation</i>
<i>Emissions</i>	<b>IEC 61000-6-4 (2006) +A1</b>	<b>Conforms</b>

Based on the evidence presented in the provided technical documentation, CKC Certification Services, LLC., asserts the above determination regarding the equipment identified herein.

*Acceptance Date:* **October 26, 2016**

*Expiration Date:* **October 26, 2018**

  
**Steve Behm, Authorized Signatory**

Suitability of applied standards and compliance assessment under a given economy remains the applicant's responsibility. CKC CS assumes no liability for failure of the manufacturer to ensure continued compliance with all applicable regulations of the conformity assessment scheme where products are sold. This opinion is issued in accordance with information readily available at the time of review. CKC CS has no legal authority to determine absolute equivalence with the requirements of certain economies.

## ANNEX A

### Assessment of testing in accordance with standard with deviations to procedure.

While the limits are applied in accordance with IEC 61000-6-4 (2006)+A1, the test procedures utilized deviate from those specified.

Testing was performed on the XC680 configured with optional IEC 62109 hardware. This configuration was determined by the manufacturer to represent compliance for the XC680, XC630 and XC540 both with and without optional hardware.

### Discussion of Analysis

The measurement procedure for radiated emissions in accordance with IEC 61000-6-4 (2006)+A1 is CISPR 16-2-3 (2006) in which the measurement distance for in-situ testing is the distance from the measurement antenna to the periphery of the building into which the equipment is installed. The test report, 97944-15, utilized a worst-case approach by using a measurement distance from the outside of the equipment enclosure using a simulated installation. Since these PV Inverter enclosures are not weather protected, the equipment will require secondary enclosures or building structure to protect the equipment. Therefore, the emissions from the equipment were higher than would be if the measurements had been performed at an actual installation.

In order to provide more realistic measurement results, the measurement data were corrected for concrete building attenuation based upon the results of the attenuation survey of *IEEE Standard 473, IEEE Recommended Practice for an Electromagnetic Site Survey (10 kHz to 10 GHz)* (1985), Section 5.3. The attenuation factor from Figure 9 (shown below) was used as a basis for this correction. Attenuation due to additional free-space path loss from the equipment to the interior of the enclosure is not taken into consideration because the physical size of such a structure is unknown, however this factor would serve only to decrease the overall emissions measurements.

It is the opinion of CKC Certifications Services, LLC. that the equipment identified herein meets the EMC performance requirements of IEC 61000-6-4:2006+A1 when enclosed and installed within structures providing similar attenuation factors.

Excerpt from IEEE 473 (1985), Figure 9

