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To: Sharp Certified Installers and Customers

From: Steven Meredith, Senior Engineering Product Manager Commercial/Utility

Subject: Alternate Methods for Grounding Sharp Modules

Date: 06/15/2010

Prior to codification of electrical standards, SHARP had addressed alternate methods for grounding SHARP solar panels by circulating technical bulletins to customers and installers. Now that electrical standards and codes have been codified and clarified, SHARP hereby rescinds all prior technical bulletins, email or other communications regarding grounding methods, including TB0103-1, TB0403-1, TB1108-1, TB2007.8.28-1 and TB2007.8.31-1, and refers all customers and installers to SHARP's module installation manual.

UL subjects each grounding method to testing according to UL Standard 1703 for Flat-Plate Photovoltaic Modules and Panels. According to section 11 Bonding and Grounding of UL 1703, the grounding method must be "described in detail in the installation manual." SHARP has approved several methods for electrically grounding modules. These methods are described in detail in SHARP's installation manual and are in accordance with UL 1703.

Any grounding methods not specifically described in the SHARP module installation manual or addenda are not approved by SHARP and do not conform to the UL listing as an approved electrical grounding method. Furthermore, installing a SHARP module with a grounding method not listed in the SHARP installation manual may, in SHARP's discretion, void the Limited Warranty.