January 21, 2022

Unirac
1411 Broadway Boulevard NE
Albuquerque, New Mexico 87102-1545

Attn.: Engineering Department,

Re: Engineering Certification for the Ballast Design of the Unirac RMDT System.
Job Number: 2016-12897

The Unirac RMDT Roof Mounted Ballasted Photovoltaic Panel Support System is a proprietary framed ballasted assembly which supports Photovoltaic panels. The ballast frames hold the PV panels and are ballasted with concrete blocks as required for the wind loads. The wind uplift loads are resisted directly by the ballast. Lateral forces, both wind and seismic, are resisted by friction between the ballast and the roof surface.

The ballasting requirements are determined using the Unirac online "U-Builder RMDT" Design Assistant tool. The U-Builder RMDT Design Assistant covers a wide range of system configurations and loading and allows the user to customize the input to match the specific project conditions.

We have reviewed the RDWI wind tunnel test report and the Unirac ballast design methodology, to determine if the algorithm used by the Design Assistant tool for ballasting requirements is a rational approach and in compliance with the structural requirements of the following Reference Documents:

ASCE/SEI 7-10 and ASCE/SEI 7-16 Minimum Design Loads for Buildings and other Structures
International Building Code, 2015 & 2018 Editions
RWDI Wind Pressure Study Report #1600097
SEAOC PV1-2012 Report – Structural Seismic Requirements and Commentary for Rooftop Solar PV Arrays
SEAOC PV2-2017 Report - Wind Design for Solar Arrays

After review, this letter certifies that the Ballast Design of the Unirac RMDT System determined by the Unirac online "U-Builder RMDT" Design Assistant tool is in compliance with the above Reference Documents.

In all cases, the Design Assistant tool should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether the tool is applicable to the project, based on the characteristics of the project, and
- Understand and determine the appropriate values for all input parameters of the Design Assistant tool.

If you have any questions on the above, do not hesitate to call.

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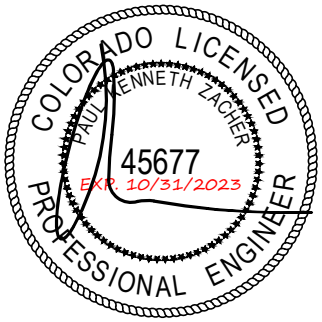

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