



July 24th, 2024

Unirac, Inc.
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Attn: Engineering Services

Re.: Engineering Certification for the Unirac Large Array (ULA) Photovoltaic Panel Support System

The Unirac Large Array (ULA) photovoltaic panel support system is a proprietary ground mounted system which supports photovoltaic panels.

Structural design is determined using the internal design tool developed by Unirac and covers a wide range of loading conditions and array sizes and allows the user to customize the input to match the specific project conditions.

Unirac Structural Engineers has reviewed the ULA photovoltaic panel support system methodology and U-builder tool and have determined that the design methodology is a rational approach and is in compliance with the structural requirements of the following Reference Documents:

- 2009 International Building Code, 2012 International Building Code, 2015 International building code & 2018 International Building Code, 2021 International Building Code by International Code Council Inc.
- ASCE/SEI 7-05, ASCE/SEI 7-10 and ASCE/SEI 7-16 Minimum Design Loads and Other Structures, by American Society of Civil Engineers.
- 2005 through 2020 Aluminum Design Manual, by the Aluminum Association.

This letter certifies that the structural analysis of the racking members, connections and foundation designs are in compliance with the above codes.

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

Alireza Mashhadi Ali, PE
Director of Engineering Services

Stamped Date: 7/24/2024

