



January 17th, 2024

Unirac, Inc.
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Re.: Unirac Roof Mount Dual Tilt (RMDT) Design Tool – New Mexico

Attn: Engineering Services

Unirac Structural Engineer has reviewed Unirac's RMDT's roof-mount ballasted design tool and design methodology. We have reviewed the design tool's methodology and Wind tunnel study to ensure the racking structure supporting photovoltaic (PV) modules for commercial uses complies with codes it would be submitted under.

This system utilizes the dead weight of the ballast as the main overturning and uplift restraint due to wind. Seismic and lateral wind forces are resisted by friction between the bay's roof pad and the roof surface.

All analysis and information in RMDT design tool's formulas and tables comply with the following:

- 2009 International Building Code, through 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 Aluminum Design Manual, 2010 Aluminum Design Manual, 2015 Aluminum Design Manual (ADM), 2017 Aluminum Design Manual & 2020 Aluminum Design Manual, by the Aluminum Association.

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

For more information, see the construction drawings.

1/18/2024

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