

Mohamed Said Mahmoud,PE

PE056354

8340 Lake Willow Way, Elk Grove, CA 95758

04/09/24

LOTUS ENERGY & SOLAR

220 W Main St, Tavares, FL 32778

RE:

Brad Jordan

42 British Lane Cameron North Carolina 28326 United States

Subject: Structural Analysis Report for Proposed Photovoltaic Module Installation

I am writing on behalf of LOTUS ENERGY & SOLAR to share the results of the structural analysis conducted on the roof at the specified location. Our assessment focused on determining the suitability of the existing roof system to support the installation of photovoltaic modules while meeting building code requirements. Based on our thorough evaluation, we confirm that the roof possesses the necessary structural integrity to accommodate the proposed modules without compromising safety or stability.

System Description

Panels: (17) REC400NP3

Distributed Weight: < 4 psf

Point Load: < 45 lbs

Design Criteria

Wind Speed: 120 mph

Exposure Category: B

Snow Load: 10 lbs

Risk Category: II

Design Codes

Version: NCBC 2018

Building: IBC 2015/ASCE 7-10

AHJ: Un-incorporated Harnett



Our assessment indicates that the proposed installation can proceed without compromising the integrity or safety of the structure.

If you have any questions regarding this analysis, please feel free to contact us.

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