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04/09/24

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RE:

Brad Jordan

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## 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

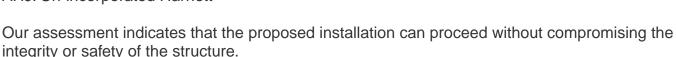
## **Design Criteria**

Wind Speed: 120 mph Exposure Category: B Snow Load: 10 lbs Risk Category: II



Version: NCBC 2018

Building: IBC 2015/ASCE 7-10 AHJ: Un-incorporated Harnett



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

