



9/29/2021

Subject: Structural Certification for Installation of Residential Solar

re job: Jose Antonio Lopez, 45 Scotts Creek Run, Anger, NC, 27501

Attn.: To Whom It May Concern

Observation of the condition of the existing framing system was performed by an audit team of Von Loor & Sloof Energy LLC .

After review of the field observation data, structural capacity calculations were performed in accordance with applicable building codes to determine adequacy of the existing roof framing supporting the proposed panel layout. Please see full Structural Calculations report for details regarding calculations performed and limits of scope of work and liability. The design criteria and structural adequacy are summarized below:

ROOF 1: Shingle roofing supported by 2x6 Rafter @ 24 in. OC spacing. The roof is sloped at approximately 20 degrees and has a max beam span of 10.20 ft between supports.

Design Criteria:

Code: 2018 NC Building Code (ASCE 7-10)

Ult Wind Speed:	118 mph	Ground Snow:	15 psf
Exposure Cat:	B	Min Roof Snow:	NA psf

ROOF 1: adequate to support the imposed loads. Therefore, no structural upgrades are required.

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