

PARKER AND WEST ENGINEERING, PLLC

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October 18, 2018

Sunrun Inc.
133 Technology Dr. Suite 100
Irvine, CA, 92618

Re: Structural Certification for Installation of Solar Panels
Sunrun Job Tracking Number: 213R-039WILL
Client: Dorothy Williams
Address: 145-39 230th Street, Queens, NY, 11413

To Whom It May Concern:

A field observation of the condition of the existing framing system was performed by an audit team from Sunrun Inc. From the field observation of the property, the existing roof structure was observed as follows:

- Composite Shingles over roof plywood is supported by 2x8 @ 16" o.c. SPF #2 at ARRAY 1/2/3. The rafters are sloped at approximately 18 degrees and have a maximum projected horizontal span of 12ft 6in. between load bearing walls.

Design Criteria:

- Applicable Codes = 2014 NYC Building Code, ASCE 7-05 & 7-10, NDS-05
- Ground Snow Load = 25 psf
- Basic Wind Speed = 98 mph, Exposure Category C.

As a result of the completed field observation and design checks:

- ARRAY 1/2/3: It is adequate to support the loading imposed by the installation of solar panels and modules. Therefore, no structural upgrades are required.

I certify that the capacity of the structural roof framing that directly supports the additional loading due to the solar panel supports and modules had been reviewed and determined to meet or exceed the requirements without structural upgrade in accordance with the 2014 NYC Building Code.

Sincerely,



Walid Abdulla, P.E.

Manager

Parker and West Engineering, PLLC

