



June 27, 2014

To: 1st Light Energy
1869 Moffat Blvd
Manteca, CA 95336

Subject: Energy Analysis for
Installation of Solar Panels
VERDE Residence
379 Englewood Avenue
Staten Island, NY

To whom it may concern:

An energy analysis will be performed for the Verde residence located at 379 Englewood Avenue, Staten Island, NY. The usage of electricity and the HVAC system at the Verde residence will remain unchanged after the solar PV installation. The solar attachments to the rafters have penetration by lag screws at 48" oc per rail. The penetrations are going to be sealed by sealant and flashing to create a sealed surface around the lag screws. The flashing will prevent water leakage from outside and energy leakage from inside the attic. Therefore, the efficiency of the HVAC system and entire envelope of the home will remain the same after the installation, and no energy change is observed from before and after the construction.

If you have any question or if I can be of further assistance, please do not hesitate to contact me at 978-406-8921.

Sincerely,

Elaine A. Huang, P.E.
Structural Engineer





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