



1011 N Causeway Blvd, Suite 19 ♦ Mandeville, Louisiana 70471 ♦ Phone: 985.624.5001 ♦ Fax: 985.624.5303

04/14/2023

ADT Solar
22171 MCH Road
Mandeville, LA 70471

Project Name: Sandra Lucas
Project Address: 110 Red Cedar Way, Fuquay-Varina, NC 27526

Solar Array Post Installation – Structural & Electrical Review

Per your request, Jovaughn Gilbert, a representative of Principal Engineering performed a post install site visit at the above address on 04/14/2023. The purpose of the post installation visit was to confirm the installment of solar panels to the roof were completed as instructed by the Structural and Electrical Engineers.

Based on examination of the installment of solar panels & electrical components to the existing roof, it is our conclusion that the photovoltaic array & appropriate electrical equipment was constructed in accordance with the structural and electrical requirements and North Carolina applicable codes in our original letter dated: 11/09/2022.

The equipment will not create a negative impact on the building's structural design, including any additional loads imposed (dead, snow, wind) and the installation is in compliance with the North Carolina Residential Code

Inspection validates construction according to design. The framing size and spacing has been verified to match the provided information from the original review. Measures have been taken to waterproof all roof penetrations and no existing or new damage was observed.

If you have any further questions regarding this matter, please call our office at your convenience.

This item has been digitally signed and sealed by Henry I. DiFranco, Jr., P.E. on April 14, 2023. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

This item has been digitally signed and sealed by Nestor J. Houghton, P.E. on April 14, 2023. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Henry I. Di Franco, Jr. P.E.
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Project Engineering

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Project Electrical Engineer

PRINCIPAL Infrastructure®

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APPENDIX G

DESIGN PROFESSIONAL INSPECTION FORM

Record of the Inspection of a Component or Element by a NC Licensed Architect or Engineer

Project Information:

Residential Single-Family Project: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Commercial Project: <input type="checkbox"/> Y <input type="checkbox"/> N
Code Enforcement Project No:	Permit No: <u>ERES2303-0004</u>
Project Name: <u>Lucas Residence</u>	Owner: <u>Sandra Lucas</u>
Project Address: <u>110 Red Cedar Way, Fuquay-Varina, NC</u>	Suite No:
Date Inspected: <u>04/14/2023</u>	Contractor Name: <u>Marc Jones Construction, LLC DBA Sunpro Solar</u>
Component Inspected: <u>Roof Installation</u>	

Responsible Licensed NC Architect or NC Engineer

Name:	<u>Henry I. DiFranco, Jr.</u>		
Firm Name:	<u>Principal Engineering</u>		
Phone Numbers:	Office: <u>985-624-5001</u>	Mobile:	
email Address:	<u>Principal-Sunpro@pi-aec.com</u>		
Mailing Address:	<u>1011 N. Causeway Blvd. Suite 19. Mandeville, LA 70471</u>		

APPLICABLE CODE:

2018 NCBC = [2018 NC Building Code](#); **2018 NCRC** = [2018 NC Residential Code](#)

Describe Element/Component/Type of Inspection: *

Structural & Electrical inspection of PV racking system including mounts to roof, rails, and clamps. Also to include the inspection of wiring, inverters, combiner box.

*(subgrade form/letter may also be required)

Attestation/Signature:

By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per [G.S. 160D-1106](#) and is in compliance with the Code or other proposal of the architect or engineer for the project. This inspection is in compliance with all of the requirements of the above referenced code. Attach any additional documents if needed.

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Licensed Architect or Engineer

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Inspection Department disclaimer:

Upon the receipt of a signed written document as required under subsection (a) of G.S. 160D-11-1, Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.