

Initial Application Date: 05/13/2016

Application # 1750041210

CU# \_\_\_\_\_

**COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION**

Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 ext:2 Fax: (910) 893-2793 www.harnett.org/permits

"A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) & SITE PLAN ARE REQUIRED WHEN SUBMITTING A LAND USE APPLICATION"

LANDOWNER: Robert Ahrens i veslie Mailing Address: 810 McLamb Road  
City: Coats State: NC Zip: 27521 Contact No: 814-812-2402 Email: LJbahrens@gmail.com

APPLICANT\*: Chris Baker Mailing Address: 3401-101 Atlantic Ave.  
City: Raleigh State: NC Zip: 27604 Contact No: 919-833-9096 Email: Permitting@ncsolarnow.com

\*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: Chris Baker Phone # 919-833-9096

PROPERTY LOCATION: Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_ Lot Size: 11.73  
State Road # \_\_\_\_\_ State Road Name: 810 McLamb Rd Map Book & Page: 2015, 321

Parcel: 070680 0029 PIN: 0680-72-7262-000  
Zoning: R-30 Flood Zone: X Watershed: - Deed Book & Page: 3374, 655 Power Company\*: Duke Energy Progress

\*New structures with Progress Energy as service provider need to supply premise number \_\_\_\_\_ from Progress Energy.

**PROPOSED USE:**

- SFD: (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms: \_\_\_\_\_ # Baths: \_\_\_\_\_ Basement(w/wo bath): \_\_\_\_\_ Garage: \_\_\_\_\_ Deck: \_\_\_\_\_ Crawl Space: \_\_\_\_\_ Slab: \_\_\_\_\_ Slab: \_\_\_\_\_  
(Is the bonus room finished? ( ) yes ( ) no w/ a closet? ( ) yes ( ) no (if yes add in with # bedrooms)
- Mod: (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms \_\_\_\_\_ # Baths \_\_\_\_\_ Basement (w/wo bath) \_\_\_\_\_ Garage: \_\_\_\_\_ Site Built Deck: \_\_\_\_\_ On Frame \_\_\_\_\_ Off Frame \_\_\_\_\_  
(Is the second floor finished? ( ) yes ( ) no Any other site built additions? ( ) yes ( ) no
- Manufactured Home: \_\_\_\_\_ SW \_\_\_\_\_ DW \_\_\_\_\_ TW (Size \_\_\_\_\_ x \_\_\_\_\_) # Bedrooms: \_\_\_\_\_ Garage: \_\_\_\_\_ (site built? \_\_\_\_\_) Deck: \_\_\_\_\_ (site built? \_\_\_\_\_)
- Duplex: (Size \_\_\_\_\_ x \_\_\_\_\_) No. Buildings: \_\_\_\_\_ No. Bedrooms Per Unit: \_\_\_\_\_
- Home Occupation: # Rooms: \_\_\_\_\_ Use: \_\_\_\_\_ Hours of Operation: \_\_\_\_\_ #Employees: \_\_\_\_\_
- Addition/Accessory/Other: (Size 32'5" x 14) Use: Ground-Mounted Solar PV Array (about 455 sq. ft.) Closets in addition? ( ) yes (  ) no

Water Supply: \_\_\_\_\_ County \_\_\_\_\_ Existing Well \_\_\_\_\_ New Well (# of dwellings using well \_\_\_\_\_) \*Must have operable water before final

Sewage Supply: \_\_\_\_\_ New Septic Tank (Complete Checklist)  Existing Septic Tank (Complete Checklist) \_\_\_\_\_ County Sewer

Does owner of this tract of land, own land that contains a manufactured home within five hundred feet (500') of tract listed above? ( ) yes (  ) no

Does the property contain any easements whether underground or overhead ( ) yes ( ) no

Structures (existing or proposed): Single family dwellings: 1 Manufactured Homes: \_\_\_\_\_ Other (specify): Ground mounted solar array

**Required Residential Property Line Setbacks:**

Front	Minimum <u>10</u>	Actual <u>&lt;100</u>
Rear	<u>25</u>	<u>&lt;100</u>
Closest Side	_____	_____
Sidestreet/corner lot	_____	_____
Nearest Building on same lot	_____	_____

Comments: Set Backs are greater then 100ft from any property line

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: See Attached

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If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

  
\_\_\_\_\_  
Signature of Owner or Owner's Agent

4/20/17  
\_\_\_\_\_  
Date

**\*\*\*It is the owner/applicants responsibility to provide the county with any applicable information about the subject property, including but not limited to: boundary information, house location, underground or overhead easements, etc. The county or its employees are not responsible for any incorrect or missing information that is contained within these applications.\*\*\***

**\*\*This application expires 6 months from the initial date if permits have not been issued\*\***

NAME: Chris Baker

APPLICATION #: 41210

\*This application to be filled out when applying for a septic system inspection.\*

**County Health Department Application for Improvement Permit and/or Authorization to Construct**

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (Complete site plan = 60 months; Complete plat = without expiration)

910-893-7525 option 1

CONFIRMATION # 021810

- Environmental Health New Septic System** Code 800
  - **All property irons must be made visible.** Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
  - Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at/for Central Permitting.
  - Place orange Environmental Health card in location that is easily viewed from road to assist in locating property.
  - If property is thickly wooded, Environmental Health requires that you clean out the **undergrowth** to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. **Do not grade property.**
  - **All lots to be addressed within 10 business days after confirmation. \$25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.**
  - After preparing proposed site call the voice permitting system at 910-893-7525 option 1 to schedule and use code **800** (after selecting notification permit if multiple permits exist) for Environmental Health inspection. Please note confirmation number given at end of recording for proof of request.
  - Use Click2Gov or IVR to verify results. Once approved, proceed to Central Permitting for permits.
- Environmental Health Existing Tank Inspections** Code 800
  - Follow above instructions for placing flags and card on property.
  - Prepare for inspection by removing soil over **outlet end** of tank as diagram indicates, and lift lid straight up (*if possible*) and then **put lid back in place.** (Unless inspection is for a septic tank in a mobile home park)
  - **DO NOT LEAVE LIDS OFF OF SEPTIC TANK**
  - After uncovering **outlet end** call the voice permitting system at 910-893-7525 option 1 & select notification permit if multiple permits, then use code **800** for Environmental Health inspection. Please note confirmation number given at end of recording for proof of request.
  - Use Click2Gov or IVR to hear results. Once approved, proceed to Central Permitting for remaining permits.

**SEPTIC**

If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.

- Accepted       Innovative       Conventional       Any  
 Alternative       Other Ground-Mounted Solar Array

The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant **MUST ATTACH SUPPORTING DOCUMENTATION**:

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> YES            | <input type="checkbox"/> NO            | Does the site contain any Jurisdictional Wetlands?  |
| <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | Do you plan to have an <u>irrigation system</u> now or in the future?                     |
| <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | Does or will the building contain any <u>drains</u> ? Please explain. _____               |
| <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | Are there any existing wells, springs, waterlines or Wastewater Systems on this property? |
| <input type="checkbox"/> YES            | <input checked="" type="checkbox"/> NO | Is any wastewater going to be generated on the site other than domestic sewage?           |
| <input type="checkbox"/> YES            | <input type="checkbox"/> NO            | Is the site subject to approval by any other Public Agency?                               |
| <input type="checkbox"/> YES            | <input type="checkbox"/> NO            | Are there any Easements or Right of Ways on this property?                                |
| <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO            | Does the site contain any existing water, cable, phone or underground electric lines?     |


If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules. I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.

  
 \_\_\_\_\_  
 PROPERTY OWNERS OR OWNERS LEGAL REPRESENTATIVE SIGNATURE (REQUIRED)

4/20/17  
 \_\_\_\_\_  
 DATE

ENGINEER:



**MODEL ENERGY**  
 702 E. FRANKLIN ST.  
 RALEIGH, NC 27604  
 919-277-49905  
 MODELENERGY1.COM  
 R1194

JOB TITLE:  
**NEW SOLAR PV SYSTEM**

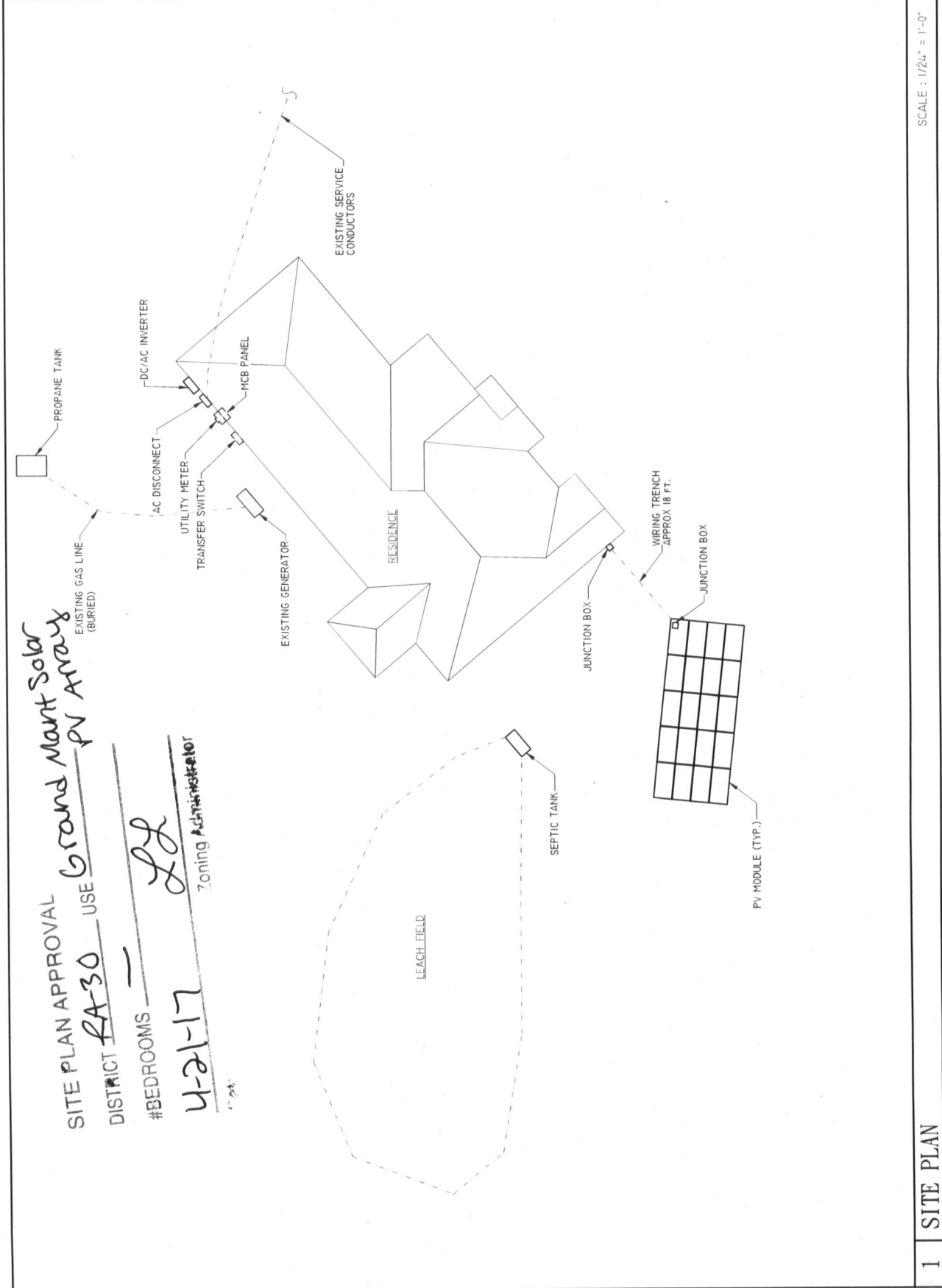
CLIENT:  
**NC SOLAR NOW**

ROBERT AHRENS  
 810 McLAMB ROAD  
 COATS, NC 27521

6.8 KW DC INPUT  
 6.0 KW AC EXPORT

ISSUED FOR:	DATE:
PERMIT	4/19/17
SITE INFORMATION	

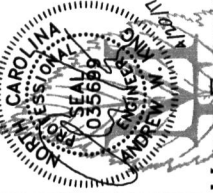
**PV2.1**



**SITE PLAN APPROVAL**  
 DISTRICT RA-30 USE Grand Mant Solar PV Array  
 #BEDROOMS 22  
4-21-17  
 Zoning Administrator

SCALE : 1/24" = 1'-0"

ENGINEER:



**MODEL ENERGY**  
 702 E. FRANKLIN ST.  
 RALEIGH, NC 27604  
 919-274-9905  
 MODELENERGY1.COM

PI1194

**JOB TITLE:**  
 NEW SOLAR PV SYSTEM

**CLIENT:**  
 ROBERT AHRENS  
 810 McLAMB ROAD  
 COATS, NC 27521

**ISSUED FOR:** PERMIT  
**DATE:** 4/19/17

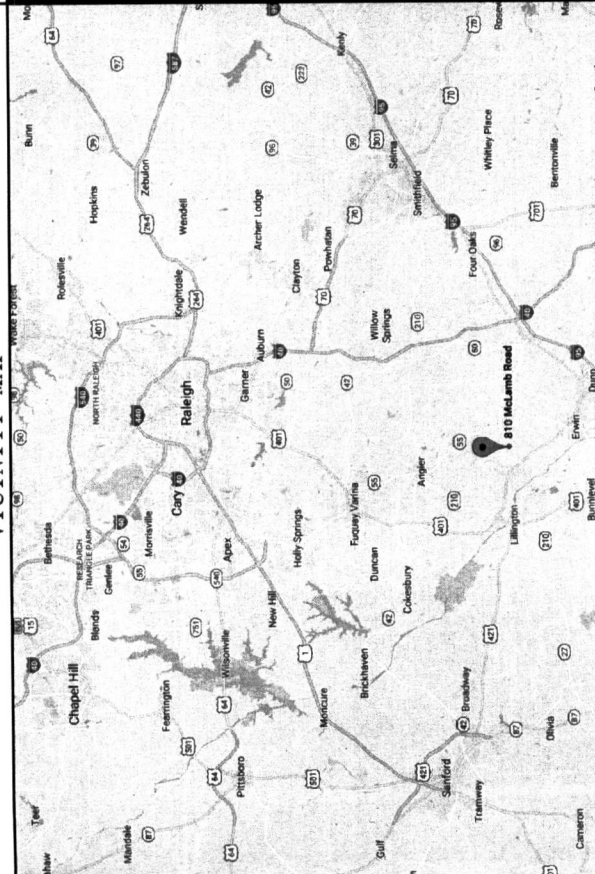
**PROJECT INFORMATION**

# PV1.1

## PROPERTY MAP



## VICINITY MAP



## CODE REFERENCES

- 2014 NATIONAL ELECTRIC CODE
- 2012 NORTH CAROLINA BUILDING CODE
- 2012 NORTH CAROLINA RESIDENTIAL CODE
- 2012 NORTH CAROLINA FIRE CODE

## SHEET INDEX

- PV1.1 - PROJECT INFORMATION
- PV2.1 - SITE INFORMATION
- PV3.1 - STRUCTURAL INFORMATION
- PV4.1 - ELECTRICAL INFORMATION
- PV5.1 - EQUIPMENT LABELS

## SITE CONDITIONS

DESIGN WIND SPEED - 105 MPH  
 EXPOSURE CATEGORY B

## LEGEND



## ABBREVIATIONS

A	AMPERE	ALTERNATING CURRENT
AC	DIRECT CURRENT	EQUIPMENT GROUNDING CONDUCTOR
EGC	ELECTRICAL METAL TUBING	
EHT	GALVANIZED	GROUNDING ELECTRODE CONDUCTOR
GALV	GROUND	
GEC	CURRENT	
GND	CURRENT AT MAXIMUM POWER	
I	SHORT-CIRCUIT CURRENT	
IHP	KILOVOLT AMPERE	
ISC	KILOWATT	
KVA	MAXIMUM	
KW	MINIMUM	
MAX	MAIN CIRCUIT BREAKER	
MIN	MAIN LUG ONLY	
MBC	NOMINAL	
MLO	NOT TO SCALE	
NOM	NOMINAL POWER	
PhOH	PHOTOVOLTAIC	
PV	SOLAR NOON	
PVC	STANDARD TEST CONDITIONS	
SN	TYPICAL	
STC	VOLT	
TYP	VOLTAGE AT MAXIMUM POWER	
V	OPEN-CIRCUIT VOLTAGE	
VHP	WATT	
Voc		
W		

## CONSTRUCTION NOTES

- ALL WORK AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL, STATE, AND LOCAL CODES AND ORDINANCES
- FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST PRACTICES, AND SPECIFICATIONS
- WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS
- THE PHOTOVOLTAIC SYSTEM SHALL NOT EXCEED 600 VOLTS OR 800 AMPS
- EACH ELECTRICAL APPLIANCE SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE IDENTIFYING NAME AND THE RATING IN VOLTS AND AMPERES, OR VOLTS AND WATTS. IF THE APPLIANCE IS TO BE USED ON A SPECIFIC FREQUENCY OR FREQUENCIES, IT SHALL BE SO MARKED. WHERE MOTOR OVERLOAD PROTECTION EXTERNAL TO THE APPLIANCES IS REQUIRED, THE APPLIANCE SHALL BE SO MARKED
- WHERE APPLICABLE, GROUNDING ELECTRODE CONDUCTOR TO BE CONTINUOUS. GROUNDING CRIMPS TO BE IRREVERSIBLE
- GROUNDING DC PHOTOVOLTAIC ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION THAT MEETS THE REQUIREMENTS OF NEC SECTION 690.5. UNGROUNDED DC PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OVER 150 VOLTS TO GROUND, SHALL ONLY BE ACCESSIBLE TO QUALIFIED PERSONS WHILE ENERGIZED.
- PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM DISCONNECT
- WHERE ALL TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE DISCONNECT
- A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED BY THE INSTALLER AT THE DC DISCONNECT MEANS
- A PERMANENT PLAQUE OR DIRECTORY, DENOTING ALL ELECTRIC POWER SOURCES SERVING THE PREMISES, SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL POWER PRODUCTION SOURCES.
- A PERMANENT PLAQUE OR DIRECTORY SHALL BE PROVIDED DENOTING THE LOCATIONS OF THE SERVICE DISCONNECT MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECT MEANS IF THEY ARE NOT LOCATED AT THE SAME LOCATION.
- ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC SECTION 690.4 (C)

Application # \_\_\_\_\_

**Harnett County Central Permitting**

PO Box 65 Lillington, NC 27546 - Ph: 910-893-7525 - Fx: 910-893-2793 - www.harnett.org/permits  
Certification of Work Performed By Owner/Contractor  
(Individual Trade Application)

Owner (s) of Structure: Robert Ahrens Phone: 814-812-2402

Owner (s) Mailing Address: 810 McLamb Road, Coats, NC 27521

Land Owner Name (s): Robert Ahrens Phone: 814-812-2402

Construction or Site Address: 810 McLamb Road, Coats, NC 27521

PIN # \_\_\_\_\_ Parcel # \_\_\_\_\_

Job Cost: \$29,081 Description of Work to be done Installation of a ground-mounted solar pv array

Mechanical: New Unit With Ductwork  New Unit Without Ductwork  Gas Piping  Other

Electrical\*: 200 Amp  <200 Amp  Service Change  Service Reconnect  Other

\* For Progress Energy customers we need the premise number

Plumbing: Water/Sewer Tap  Number of Baths  Water Heater

Specific Directions to Job from Lillington:

Attached Separately

Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_

I Karl Stupka will provide the Electrical labor on this structure.  
(Contractors Name) (Trade)

I am the building owner or my NC state license number is 15077-U, which entitles me to perform such work on the above structure legally. All work shall comply with the State Building Code and all other applicable State and local laws, ordinances and regulations.

NC Solar Now, Inc  
Contractor's Company Name  
3401-101 Atlantic Ave, Raleigh, NC 27604  
Address  
31533  
License # \_\_\_\_\_

919-833-9096  
Telephone  
permitting@ncsolarnow.com  
Email Address

Structure Owner / Contractor Signature:  Date: 4/20/17

By signing this application you affirm that you have obtained permission from the above listed license holder to purchase permits on their behalf. If doing the work as owner you understand that you cannot rent, lease or sell the listed property for 12 months after completion of the listed work.

**\*Company name, address, & phone must match information on license**