

Initial Application Date: 1-27-16

Application # 11050037919

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: Ernest Alphin Mailing Address: 945 Alphin Rd
City: Dunn State: NC Zip: 28334 Contact No: 910-892-8258 Email: ETAPROP@gmail.com

APPLICANT: Southern Energy Mgmt Mailing Address: 101 Kitty Hawk Drive
City: Morrisville State: NC Zip: 27560 Contact No: 919-836-0330 Email: Theresa@southern-energy.com
*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: Theresa Moore Phone # 919-836-0330

PROPERTY LOCATION: Subdivision: _____ Lot #: 1 Lot Size: 8.94 AC

State Road # _____ State Road Name: US 301 S Map Book & Page: 1

Parcel: 02 1504 0045 PIN: 1504-98-7880.000

Zoning: R330 Flood Zone: X Watershed: NA Deed Book & Page: 706, 849 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) Monolithic
- 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 17.44 x 44) Use: solar 40 panels 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: _____ Manufactured Homes: _____ Other (specify): _____

Required Residential Property Line Setbacks: Comments: Install ground mount solar array.

Front Minimum _____ Actual _____

Rear _____

Closest Side _____ 10-15 feet off of property line

Sidestreet/corner lot _____

Nearest Building on same lot _____

- Measurements
 - total size of panels
 - set back 10 feet
 - septic marked / dig up outlet lid
- Environmental will test system
- 10 - 14 days

Mark house corner
must flag other house

17 x 44

can we do electrical work

ERNEST J. ALPHIN and wife, TERESA ALPHIN

RASBORO TWP., HARNETT COUNTY, N.C.

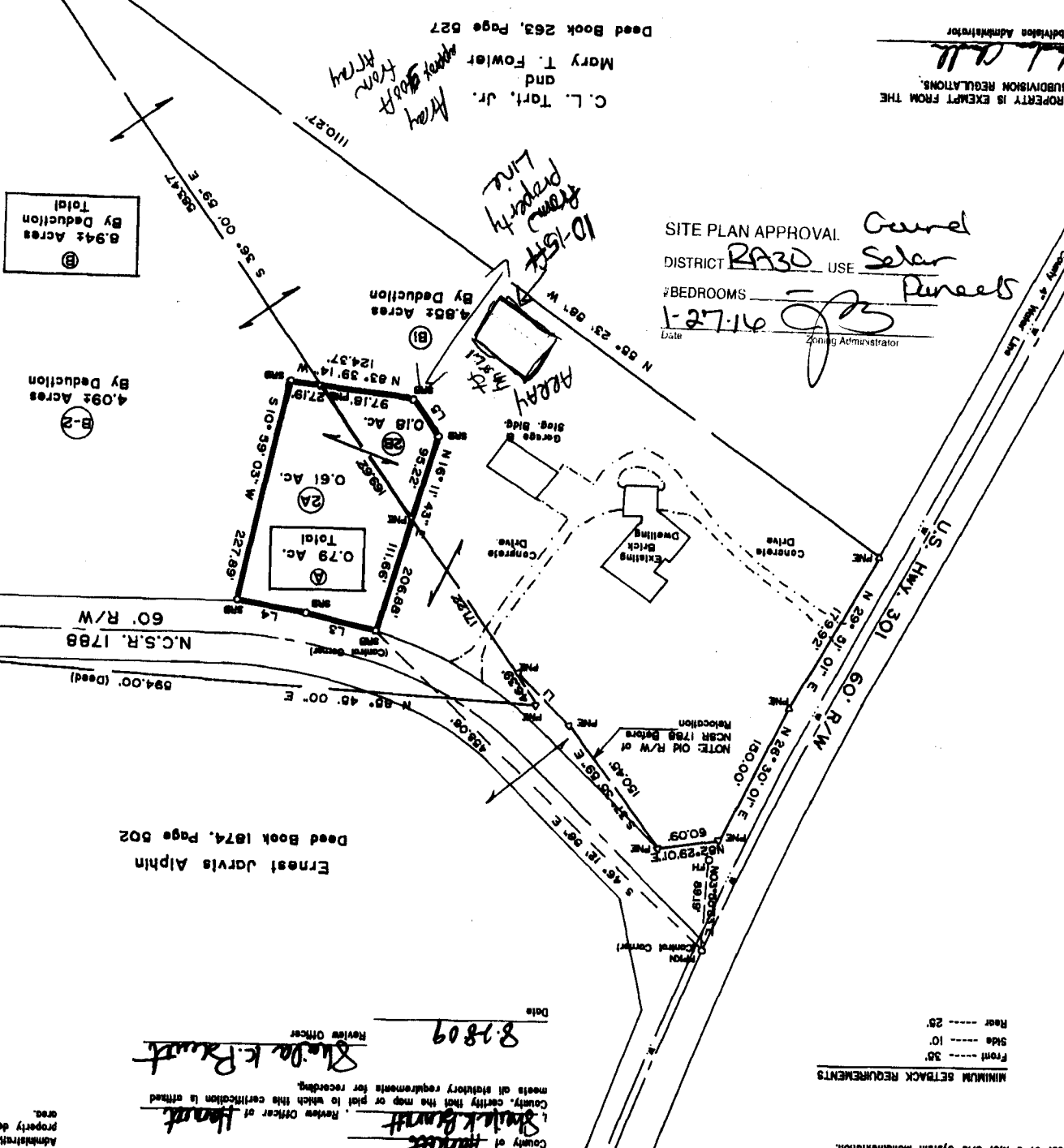
SURVEY BY: JOYNER PIEDMONT SURVEYING
105 East Cumberland Street, P.O. Box 115, Dunn, N.C. 28536
Phone (910) 892-2011

RECOMBINATION SURVEY FOR
PROPERTY OF:

C. L. Tort, Jr.
and
Mary T. Fowler
Deed Book 263, Page 627

PROPERTY IS EXEMPT FROM THE
SUBDIVISION REGULATIONS.
[Signature]
Division Administrator

SITE PLAN APPROVAL *Carol*
DISTRICT *RA30* USE *Solar*
BEDROOMS *3* *Pureets*
1-27-10 [Signature]
Zoning Administrator



Deed Book 1224,
Page 768
Thomas G. Wilson

8.94 Acres
By Deduction
Total
(B)

4.09 Acres
By Deduction
(B-2)

4.85 Acres
By Deduction
(B1)

Ernest Jarvis Alphin
Deed Book 1874, Page 502

Date: 8-18-09
Review Officer: *[Signature]*
County of *[Signature]*
State of North Carolina
County, certify that the map or plat to which this certification is affixed
meets all statutory requirements for recording.
Review Officer of *[Signature]*
Administration Property Dept.
and.

MINIMUM SETBACK REQUIREMENTS
Front --- 30'
Side --- 10'
Rear --- 25'

erty does not appear to be located within
feet of a N.C. Grid System Monumentation.

**Interconnection Request Application Form
for Interconnecting a Certified Inverter-Based
Generating Facility No Larger than 20 kW**

This Interconnection Request Application Form is considered complete when it provides all applicable and correct information required below. Additional information to evaluate the Interconnection Request may be required.

Processing Fee

A non-refundable processing fee of \$100 must accompany this Interconnection Request Application Form.

If the Interconnection Request is submitted solely due to a transfer of ownership of the Generating Facility, the fee is \$50.

Interconnection Customer

Name:	Ernest Alphin
Contact Person:	
Email Address:	etaprop@gmail.com
Address:	945 Alphin Road
City:	Dunn
State:	NC
Zip:	28334
County:	Harnett
Telephone (Day):	9108928258
(Evening):	
Fax:	

Contact (if different than Interconnection Customer)

Name:	Theresa Moore
Email Address:	solaradmin@southern-energy.com
Address:	101 Kitty Hawk Drive
City:	Morrisville
State:	NC
Zip:	27560
County:	Wake
Telephone (Day):	9198360330
(Evening):	
Fax:	9198360305

Owner(s) of the Generating Facility:	
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Generating Facility Information

Facility Location (if different from above):

Address:	945 Alphin Road
City:	Dunn
State:	NC
Zip:	28334
County:	Harnett
Utility	Duke Energy Progress
Account Number:	233021005

For photovoltaic sources only:

Inverter Manufacturer:	Inverter: 2 x SolarEdge Technologies 6.0 kW (Model SE6000 (240V) w/ -ER-US or A-US) Inverter Rating (ea): 6 kW AC Efficiency: 97.5% PV Module Array: 40 x LG Electronics Solar Cell Division 300W (Model LG300N1K-G4) Module Rating (ea): 300 W DC, 273.4 W PTC Tilt: 30 Azimuth: 180 Tracking: Fixed Nameplate Rating: 12 kW DC AC Rating: 10.663 kW CEC-AC Estimated Annual Production: 16899 kWh Design Factor: 93.4 %
Model:	
Total panel capacity:	
Nameplate Rating (each inverter):	
	6 kVA _(AC) (each inverter)
	6 Volts _(AC) (each inverter)

Phase:	Single Phase
System Design Capacity:	12kVA _(AC)
Maximum Physical Export Capability Requested:	15 kW _(AC)
Prime Mover	Photovoltaic

ENERGY SOURCE TABLE

Renewable	Non-Renewable
H-1. Solar – Photovoltaic	

Is the equipment UL 1741 Listed?	
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If Yes, attach manufacturer's cut-sheet showing UL 1741 listing

Estimated Installation Date	2/8/2016
Estimated In-Service Date	2/29/2016

The 20 kW Inverter Process is available only for inverter-based Generating Facilities no larger than 20 kW that meet the codes, standards, and certification requirements of Attachments 3 and 4 of the North Carolina Interconnection Procedures, or the Utility has reviewed the design or tested the proposed Generating Facility and is satisfied that it is safe to operate.

List components of the Generating Facility equipment package that are currently certified:

Number	Equipment Type	Certifying Entity
1.		
2.		
3.		
4.		
5.		

Interconnection Customer Signature

I hereby certify that, to the best of my knowledge, the information provided in this Interconnection Request Application Form is true. I agree to abide by the Terms and Conditions for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 20 kW and return the Certificate of Completion when the Generating Facility has been installed.

Signed: ^{DocuSigned by:} *Ernest Alphin*
_____ 4C4B28E1A9AD407...

Title: _____

Date: 1/16/2016

**Terms and Conditions
for Interconnecting a Certified Inverter-Based
Generating Facility No Larger than 20 kW**

1.0 Construction of the Facility

The Interconnection Customer (Customer) may proceed to construct (including operational testing not to exceed two hours) the Generating Facility when the Utility approves the Interconnection Request and returns it to the Customer.

2.0 Interconnection and Operation

The Customer may interconnect the Generating Facility with the Utility's System and operate in parallel with the Utility's System once all of the following have occurred:

- 2.1 Upon completing construction, the Customer will cause the Generating Facility to be inspected or otherwise certified by the appropriate local electrical wiring inspector with jurisdiction, and
- 2.2 The Customer returns the Certificate of Completion to the Utility, and
- 2.3 The Utility has either:
 - 2.3.1 Completed its inspection of the Generating Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes. All inspections must be conducted by the Utility, at its own expense, within ten Business Days after receipt of the Certificate of Completion and shall take place at a time agreeable to the Parties. The Utility shall provide a written statement that the Generating Facility has passed inspection or shall notify the Customer of what steps it must take to pass inspection as soon as practicable after the inspection takes place; or
 - 2.3.2 If the Utility does not schedule an inspection of the Generating Facility within ten Business Days after receiving the Certificate of Completion, the witness test is deemed waived (unless the Parties agree otherwise); or
 - 2.3.3 The Utility waives the right to inspect the Generating Facility.

2.4 The Utility has the right to disconnect the Generating Facility in the event of improper installation or failure to return the Certificate of Completion.

2.5 Revenue quality metering equipment must be installed and tested in accordance with applicable American National Standards Institute (ANSI) standards and all applicable regulatory requirements.

3.0 Safe Operations and Maintenance

The Customer shall be fully responsible to operate, maintain, and repair the Generating Facility as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

4.0 Access

The Utility shall have access to the disconnect switch (if a disconnect switch is required) and metering equipment of the Generating Facility at all times. The Utility shall provide reasonable notice to the Customer, when possible, prior to using its right of access.

5.0 Disconnection

The Utility may temporarily disconnect the Generating Facility upon the following conditions:

5.1 For scheduled outages upon reasonable notice.

5.2 For unscheduled outages or emergency conditions.

5.3 If the Generating Facility does not operate in a manner consistent with these Terms and Conditions.

5.4 The Utility shall inform the Customer in advance of any scheduled disconnection, or as soon as is reasonable after an unscheduled disconnection.

6.0 Indemnification

The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations hereunder on

behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

7.0 Insurance

All insurance policies must be maintained with insurers authorized to do business in North Carolina. The Parties agree to the following insurance requirements:

- 7.1 If the Customer is a residential customer of the Utility, the required coverage shall be a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.
- 7.2 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.
- 7.3 The Customer may provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices.

8.0 Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, or expense, including reasonable attorney's fees, relating to or arising from any act or omission hereunder, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, incidental, consequential, or punitive damages of any kind.

9.0 Termination

The agreement to interconnect and operate in parallel may be terminated under the following conditions:

9.1 By the Customer

By providing written notice to the Utility and physically and permanently disconnecting the Generating Facility.

9.2 By the Utility

If the Generating Facility fails to operate for any consecutive 12-month period or the Customer fails to remedy a violation of these Terms and Conditions.

9.3 Permanent Disconnection

In the event this Agreement is terminated, the Utility shall have the right to disconnect its facilities or direct the Customer to disconnect its Generating Facility.

9.4 Survival Rights

This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

10.0 Assignment/Transfer of Ownership of the Facility

10.1 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new owner.

10.2 The new owner must complete and submit a new Interconnection Request agreeing to abide by these Terms and Conditions for interconnection and parallel operations within 20 Business Days of the transfer of ownership. The Utility shall acknowledge receipt and return a signed copy of the Interconnection Request Application Form within ten Business Days.

10.3 The Utility shall not study or inspect the Generating Facility unless the new owner's Interconnection Request Application Form indicates that a Material Modification has occurred or is proposed.

Contingent Approval to Interconnect the Generating Facility (For Utility use only)

Interconnection of the Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 10 kW and return of the Certificate of Completion.

Utility Signature: ^{DocuSigned by:} 
36E84D5AC4844D1...

Title: Smart Energy Specialist

Date: 1/26/2016

Interconnection Request ID number: INTCO-00830

Utility waives inspection/witness test? No

Application # 37919

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: Ernest Alphin Phone: 910-892-8258

Owner (s) Mailing Address: 945 Alphin Rd
Dunn NC

Land Owner Name (s): Ernest Alphin Phone: 910-892-8258

Construction or Site Address: 945 Alphin Rd

PIN # 1504-98-7880-000 Parcel # 02 1504 0045

Job Cost: \$49,546⁰⁰ Description of Work to be done Install a 12KW DC Ground mount solar array. Array has 40 panels & 2 inverters.

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 02111067

Plumbing: Water/Sewer Tap Number of Baths Water Heater

Specific Directions to Job from Lillington:
Head west on E Front Street towards S 1st st. Take us 421 S to N. 13th St in Erwin. (15 miles)
Continue onto N 13th Take NC 82E (Dorman Rd) to 301 S in Averasboro (9 miles)
Turn R onto 301 S (2 miles) Left onto Alphin - house on Right

Subdivision: _____ Lot #: _____

I, Southern Energy will provide the Electrical labor on this structure.
(Contractors Name) (Trade)

I am the building owner or my NC state license number is _____, 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.

Southern Energy Mgmt
Contractor's Company Name
101 Kitty Hawk Drive Morrisville NC
Address
29835U 27560
License #

919-836-0330
Telephone
theresa@southern-energy.com
Email Address

Structure Owner / Contractor Signature: Theresa Myne Date: 2/10/16

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**

HARNETT COUNTY CENTRAL PERMITTING
P.O. BOX 65
LILLINGTON, NC 27546
For Inspections Call: (910) 893-7525 Fax: (910) 893-2793
Bldg Insp scheduled before 2pm available next business day.

Application Number 16-50037919 Page 2
Property Address 945 ALPHIN RD Date 2/19/16
PARCEL NUMBER 02-1504- - -0045- - -
Application description . . . CP STANDALONE TRADE - RESIDENTIAL
Subdivision Name
Property Zoning RES/AGRI DIST - RA-30

Permit RESIDENTIAL ELECTRICAL PERMIT

Additional desc . . .
Phone Access Code . 1127166

Required Inspections

Seq	Phone Insp#	Insp Code	Description	Initials	Date
999	211	E211	R*ELEC ABOVE CEILING	_____	___/___/___
999	217	E217	R*ELEC RECONNECT	_____	___/___/___
999	205	E205	R*ELEC UNDER SLAB	_____	___/___/___
999	215	E215	R*ELEC. UND. POOL	_____	___/___/___
999	213	E213	R*ELECTRICAL UNDERGROUND	_____	___/___/___
999	131	R131	ONE TRADE FINAL	_____	___/___/___
999	125	R125	ONE TRADE ROUGH IN	_____	___/___/___

HARNETT COUNTY CENTRAL PERMITTING

P.O. BOX 65

LILLINGTON, NC 27546

For Inspections Call: (910) 893-7525 Fax: (910) 893-2793

Bldg Insp scheduled before 2pm available next business day.

Application Number 16-50037919 Date 2/19/16
Property Address 945 ALPHIN RD
PARCEL NUMBER 02-1504- - -0045- - -
Application type description CP STANDALONE TRADE - RESIDENTIAL
Subdivision Name
Property Zoning RES/AGRI DIST - RA-30

Owner

ALPHIN ERNEST J
945 ALPHIN RD
DUNN NC 28334
(910) 892-8258

Contractor

SOUTHERN ENERGY MANAGEMENT INC
101 KITTY HAWK DR
MORRISVILLE NC 27560
(919) 836-0330

Applicant

SOUTHERN ENERGY MGMT
101 KITTY HAWK DR
MORRISVILLE NC 27560
(919) 836-0330

--- Structure Information 000 000 17X44 GROUND SOLAR PANELS FOR RESID
Flood Zone FLOOD ZONE X
Other struct info PROPOSED USE SOLAR PANELS
WATER SUPPLY NA

Permit RESIDENTIAL ELECTRICAL PERMIT
Additional desc
Phone Access Code 1127166
Issue Date 2/19/16 Valuation 0
Expiration Date 2/18/17

Special Notes and Comments

T/S: 01/27/2016 10:44 AM JBROCK ----
945 ALPHIN

HARNETT COUNTY CASH RECEIPTS
*** CUSTOMER RECEIPT ***

Oper: LBENNETT Type: CP Drawer: 1
Date: 2/19/16 53 Receipt no: 252145

Year	Number	Amount
2016	50037919	
945 ALPHIN RD DUNN, NC 28334 B1 BP - PERMIT FEES		
		\$105.00

SOUTHERN ENERGY MANAGMENT

Tender detail	
CP CREDIT CARD	\$105.00
Total tendered	\$105.00
Total payment	\$105.00

Trans date: 2/19/16 Time: 13:22:37

** THANK YOU FOR YOUR PAYMENT **