

# J. S. HOWARD ELECTRICAL CO., INC.

5/21/19

TO: Kimberly Gibbons  
Central Permitting Technician  
Harnett County Development Services  
[kgibbons@harnett.org](mailto:kgibbons@harnett.org)

RE: Permit Number ERES1904-0029  
Load Calculation Report

Customer Name and Address: John Capps  
5095 US 421 N  
Lillington, NC 27546

Description: Installation of a 20KW Briggs & Stratton Generator Model Number 40346 and  
a 200 amp ATS with a 100 amp breaker system.

Report Attached.

2514 Dogwood Street • Sanford, NC 27332 • 919-774-1650

J.S. HOWARD ELECTRICAL CO., INC  
 2514 DOGWOOD STREET  
 SANFORD, NC 27332  
 919-774-1650

## Wattages

|                 |                              |               |               |
|-----------------|------------------------------|---------------|---------------|
| Name:           | John Capps                   |               |               |
| Address:        | 5895 US 421 N                | Prefer Phone: | Cell Phone:   |
| City State Zip: | Millington NC 27546          | Home Phone:   | Cell Phone 2: |
| Email:          | lisa.jshoward@windstream.net | Work Phone:   | Fax:          |

|                             |                      |
|-----------------------------|----------------------|
| Electrical Utility Company: | Gas Utility Company: |
| Electrical Jurisdiction:    | Gas Jurisdiction:    |

| General Loads   | SqFt / Qty | Priority | Primary or Secondary | VA    | kW     |
|---|------------|----------|----------------------|-------|--------|
| General Lighting - Whole House  | 1500       | 1        | 2                    | 4500  | 4.500  |
| Branch Circuit - Small Appliance Circuits   | 4          | 1        | 1                    | 6000  | 6.000  |
| Branch Circuit - Additional Branch Circuits   | 10         | 1        | 1                    | 15000 | 15.000 |
| Branch Circuit - Laundry Circuits   | 1          | 1        | 1                    | 1500  | 1.500  |
| Oven - Oven 4 kW  | 1          | 1        | 2                    | 4000  | 4.000  |
| Dryer - Clothes Dryer - Electric  | 1          | 1        | 2                    | 5750  | 5.750  |
| Fixed Appliances - Freezer  | 1          | 1        | 2                    | 500   | 0.500  |
| Fixed Appliances - Microwave (not counter-top model)                                    | 1          | 1        | 2                    | 1500  | 1.500  |
| Fixed Appliances - Refrigerator (1st refrigerator included in Small Appliance Circuits) | 1          | 1        | 2                    | 800   | 0.800  |

| Heat / A-C Load                         | Wattage | Priority | Primary or Secondary | VA   | kW  |
|---|---------|----------|----------------------|------|-----|
| <b>Type: Fossil Fuel / AC</b>           |         |          |                      |      |     |
| <b>Area Served: Whole House</b>         |         |          |                      |      |     |
| Gas or Oil Furnace Blower               | 700     | 1        | 2                    | 700  | 0.7 |
| A-C / Cooling Equipment (Not Heat Pump) | 9200    | 1        | 2                    | 9200 | 9.2 |

|                               |                          |                |                    |                   |
|-------------------------------|--------------------------|----------------|--------------------|-------------------|
| <b>Total Calculated Load:</b> | Primary 9825 VA (40 Amp) | Primary 9.8 kW | Secondary 24475 VA | Secondary 24.5 kW |
|-------------------------------|--------------------------|----------------|--------------------|-------------------|