

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                    |
| <b>CONVEYING PARTY DATA</b>   |                               |
| <b>Name</b>   | <b>Execution Date</b>         |
| RAIFORD SMITH   | 05/02/2014                    |
| STUART LAVAL  | 05/02/2014                    |
| JASON HANDLEY   | 05/02/2014                    |
| <b>RECEIVING PARTY DATA</b>   |                               |
| <b>Name:</b>  | DUKE ENERGY CORPORATION       |
| <b>Street Address:</b>  | 550 SOUTH TRYON STREET        |
| <b>City:</b>  | CHARLOTTE                     |
| <b>State/Country:</b>   | NORTH CAROLINA                |
| <b>Postal Code:</b>   | 28202                         |
| <b>PROPERTY NUMBERS Total: 1</b>  |                               |
| <b>Property Type</b>  | <b>Number</b>                 |
| <b>Application Number:</b>  | 14270982                      |
| <b>CORRESPONDENCE DATA</b>  |                               |
| <b>Fax Number:</b>  | (919)854-1401                 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> |                               |
| <b>Phone:</b>   | 9198541400                    |
| <b>Email:</b>   | mdowning@myersbigel.com       |
| <b>Correspondent Name:</b>  | MYERS BIGEL SIBLEY & SAJOVEC  |
| <b>Address Line 1:</b>  | 4140 PARKLAKE AVENUE          |
| <b>Address Line 2:</b>  | SUITE 600                     |
| <b>Address Line 4:</b>  | RALEIGH, NORTH CAROLINA 27612 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 9614-38X                      |
| <b>NAME OF SUBMITTER:</b>   | MEREDITH DOWNING              |
| <b>SIGNATURE:</b>   | /mld/                         |
| <b>DATE SIGNED:</b>   | 05/06/2014                    |
| <b>Total Attachments: 4</b>   |                               |
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| source=9614_38X_Assignment#page2.tif  |                               |
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| source=9614_38X_Assignment#page4.tif  |                               |

PATENT

**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Raiford Smith**, a citizen of the United States of America, residing at 508 Mammoth Oaks Drive, Charlotte, North Carolina 28270; **Stuart Laval**, a citizen of the United States of America, residing at 355 Olmstead Street, Fort Mill, South Carolina 29708; and **Jason Handley**, a citizen of the United States of America, residing at 512 Jude Lane, Waxhaw, North Carolina 28173;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **COMMUNICATION NODES AND SENSOR DEVICES CONFIGURED TO USE POWER LINE COMMUNICATION SIGNALS, AND RELATED METHODS OF OPERATION**, for which an application has been filed, or is being concurrently filed, in the United States Patent and Trademark Office. I hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 14/270,982, filed 05/06/2014) the filing date and application number of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, **DUKE ENERGY CORPORATION**, a North Carolina Corporation having a principal place of business at 550 South Tryon Street, Charlotte, NC 28202 hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to any and all inventions described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention(s) and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the


same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention(s) and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

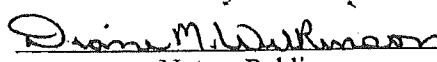
We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention(s), to testify in any interference or legal proceedings involving said invention(s), to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention(s) in all countries and to vest in the assignee complete title to the said invention(s) and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2<sup>nd</sup> day of May, 2014.

 (SEAL)  
Raiford Smith

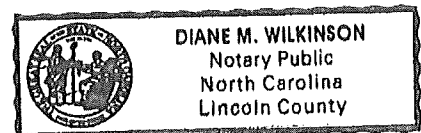
STATE OF NORTH CAROLINA )  
 ) ss:  
COUNTY OF Mecklenburg )

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 2<sup>nd</sup> day of May, 2014.

  
Notary Public

SEAL

My Commission Expires: 12 July 2014



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2nd day of May, 2014.

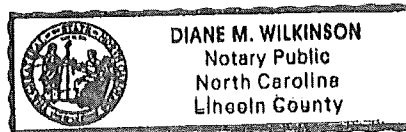
Stuart Laval (SEAL)  
Stuart Laval

STATE OF NORTH CAROLINA )  
COUNTY OF Mecklenburg ) ss:


Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 2nd day of May, 2014.

Diane M. Wilkinson  
Notary Public

SEAL  
My Commission Expires: 12 July 2014

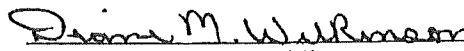


IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 2<sup>nd</sup> day of May, 2014.

 (SEAL)  
Jason Handley

STATE OF NORTH CAROLINA )  
COUNTY OF Mecklenburg ) ss:

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 2<sup>nd</sup> day of May, 2014.

  
Notary Public

SEAL  
My Commission Expires: 12 July 2014

