

# PJM-VACAR South RC Agreement

## AMENDED ADJACENT RELIABILITY COORDINATOR COORDINATION AGREEMENT

This Agreement, being an Amended Adjacent Reliability Coordinator Coordination Agreement, is made this 7<sup>th</sup> day of March 2018 (“Agreement”) by and between **PJM Interconnection, L.L.C. (“PJM”)** and the member systems of **VACAR South RC**, those being Duke Energy Progress, Inc. (“DEP”); Duke Energy Carolinas, LLC (“DEC”); South Carolina Electric & Gas Company (“SCE&G”); South Carolina Public Service Authority (“SCPSA”); and Cube Hydro Carolinas, LLC, (“CHC”), hereinafter collectively referred to as the “**Parties**” and individually as a “**Party**”, except as otherwise provided by this Agreement.

### WITNESSETH:

**WHEREAS**, PJM serves as the Reliability Coordinator in a region (the “**PJM Reliability Area**”) that includes the Balancing Authorities, Transmission Operators, electric utilities, and other entities set forth in its reliability plan approved by the North American Electric Reliability Corporation (“NERC”) (the “**PJM Reliability Area**”); and

**WHEREAS**, VACAR South RC serves as the Reliability Coordinator in a region (the “**VACAR South Reliability Area**”) that includes the Balancing Authorities, Transmission Operators, electric utilities, and other entities set forth in Exhibit B (these entities are collectively referred to as the “**VACAR South Reliability Area Parties**”); and

**WHEREAS**, Bulk Electric Systems in the PJM Reliability Area are interconnected with electric systems in the VACAR South Reliability Area; and

**WHEREAS**, the North American Electric Reliability Corporation (“NERC”) Board of Trustees approved adoption of “Reliability Standards for the Bulk Electric Systems of North America” and certain of these standards address coordination agreements and data sharing for Reliability Coordinators; and

**WHEREAS**, the VACAR South RC has contracted with DEC to serve as the “**VACAR South RC Agent**” to perform reliability tasks on the behalf of the VACAR South RC Parties within the VACAR South Reliability Area, and the VACAR South RC Parties have confirmed, and will continue to be responsible for confirming, through NERC and SERC that these arrangements with DEC as the VACAR South RC Agent as described herein are consistent with applicable NERC Reliability Standards; and

**NOW, THEREFORE**, in consideration of the premises and mutual covenants set forth herein, it is agreed as follows:

### **ARTICLE I** **PURPOSE**

The purpose of this Agreement is to augment and further support the reliability of both PJM Reliability Area and VACAR South Reliability Area. It provides for system coordination and

# PJM-VACAR South RC Agreement

the exchange of data and information over the secured Interregional Security Network (“ISN”) and the Reliability Coordinator Information System (“RCIS”) by and between the Parties so that each can coordinate its plans and operations in the interest of reliability. It also provides a means for exchanging information and system data, and for making necessary regional studies and recommendations designed to improve reliability of the interconnected bulk power systems.

## **ARTICLE II** **TERM OF AGREEMENT**

**SECTION 2.1 Term.** This Agreement shall become effective on the first day of the month following the month in which all Parties have executed this Agreement and shall continue in effect until terminated by any Party upon not less than thirty (30) days written notice to the other Parties. The right to terminate shall be within the sole discretion of any Party. However, that if termination of this Agreement would otherwise result in a violation of NERC Reliability Standards by either Party, the termination shall not become effective until a replacement agreement has been entered into, or other arrangements have been made, to avoid a violation of NERC Reliability Standards.

**SECTION 2.2 NERC Reliability Standard Revisions.** In the event that revisions to the NERC Reliability Standards referenced in this Agreement, are approved by the Federal Energy Regulatory Commission (“FERC”), the Parties, or their designated representatives, shall meet as soon as reasonably practicable after the issuance of a final rule from FERC (either in person or via conference call) to discuss whether such revisions affect the terms and conditions of this Agreement, the necessity for any mutually agreeable revisions to this Agreement, and/or whether the revisions affect the need for this Agreement. The Parties shall meet to review potential changes to this Agreement, no later than 90 days after a request by a Party.

## **ARTICLE III** **ADMINISTRATION**

**SECTION 3.1 General Requirements.** The Parties, or their designated representatives, shall meet annually with no more than 15 months between reviews (either in person or via conference call) to review this Agreement and conduct matters provided hereunder.

**Section 3.2 Dispute Resolution.** In the event of a dispute arising out of or relating to this Agreement that is not resolved by the representatives of the Parties who have been designated under Section 3.1 of this Agreement within seven (7) days of the reference to such representatives of such dispute, each Party shall, within 14 days’ written notice by either Party to the other, designate a senior officer with authority and responsibility to resolve the dispute and refer the dispute to them. The senior officer designated by each Party shall have authority to make decisions on its behalf with respect to that Party’s rights and obligations under this Agreement. The senior officers, once designated, shall promptly begin discussions in a good faith effort to agree upon a resolution of the dispute. If the senior officers do not agree upon a resolution of the dispute within 14 days of its referral to them, or do not within the same 14 day period agree to refer the matter to some individual or organization for alternate dispute resolution, then either Party shall have the right to pursue any and all remedies available to it at

# PJM-VACAR South RC Agreement

law or in equity. The time limits provided for under this Section 3.2 can be extended by written agreement of the Parties. Notwithstanding the foregoing, if either Party determines in its sole and absolute discretion at any time that such discussions will not result in resolution of the dispute, then such Party shall have the right to pursue any and all remedies available to it at law or in equity. Neither the giving of notice of a dispute, nor the pendency of any dispute resolution process as described in this Section, shall relieve a Party of its obligations under this Agreement, extend any notice period described in this Agreement or extend any period in which a Party must act as described in this Agreement. Notwithstanding the requirements of this section, either Party may terminate this Agreement in accordance with its provisions, or pursuant to an action at equity. The issue of whether such a termination is proper shall not be considered a dispute hereunder.

## **ARTICLE IV** **COORDINATION**

### **SECTION 4.1 General Provisions**

**SECTION 4.1.1 Article Definitions.** For purposes of this Article IV only, the term “Party” shall mean either PJM or the VACAR South RC Agent, and the term “Parties” shall collectively mean PJM and the VACAR South RC Agent.

**SECTION 4.1.2 Coordinating Procedures.** In order to help ensure that each Party’s operations are coordinated such that they will not have an adverse reliability impact on the other Party’s Reliability Area and to preserve the reliability benefits of interconnected operations, each Party will implement procedures, processes, or plans consistent with NERC Reliability Standards.

### **SECTION 4.2 Process for Coordinating Assistance**

**SECTION 4.2.1 Criteria and Processes for Notification.** Each Party shall communicate time sensitive operation information in a timely manner. The following types of information shall be communicated:

- (i) Next-day Operating Planning Analysis
- (ii) Outage Coordination
- (iii) Operating Plan, Guide, or Procedure that requires action by the other party
- (iv) Restoration Plans or other Emergency Plans.

**SECTION 4.2.2 Process for Coordinating Energy Emergency Assistance.** In the event either Party needs to request energy emergency assistance from the other Party (i.e., the providing party), the requesting Party shall, consistent with NERC EOP Reliability Standards, issue an Energy Emergency Alert (“EEA”) and, notify the providing Party, by phone and via the RCIS or successor communication system, of the EEA and request from the providing Party the assistance that the requesting Party believes is needed to alleviate the problems causing the EEA. The providing Party shall provide the appropriate emergency assistance consistent with NERC EOP Reliability Standard on capacity and energy emergencies and with Section 6.4 of this agreement. The requesting Party must notify the other Party, by phone and via the RCIS, when the EEA has ended.

## **PJM-VACAR South RC Agreement**

**SECTION 4.2.3 Process for Coordinating Operating Limit Violations Assistance.** In the event either Party needs to request assistance from the other Party, the requesting Party shall, consistent with NERC Reliability Standards, notify the other Party, and request from that Party the assistance that the requesting Party believes is needed to alleviate the operating limit violations. The other Party shall provide the appropriate assistance to alleviate the operating limit violations consistent with NERC Reliability Standards.

**SECTION 4.2.4 Process for Coordinating Voltage and Reactive Resources.** Each Party shall coordinate with the other during over voltage or under voltage conditions that could have potential reliability impact. In the event either Party needs to request assistance from the other Party, the requesting Party shall notify the other Party, and request from that Party the assistance that the requesting Party believes is needed to alleviate the over voltage or under voltage condition. Such assistance may include the following actions: check the status of capacitor banks, voltage control devices, and regulated volt-ampere reactive (VAR) reserves.

Each Party agrees to notify, as soon as practical, the other Party when a problem is encountered or projected in their Reliability Area with managing voltage schedules such that the other Party's Reliability Area could be adversely impacted. Similarly, each Party will notify the other if a reactive resource deficient area impacting the other Party is identified such that a coordinated response can be pursued.

**SECTION 4.3 Reliability Problem Identification.** In the event a Party makes an identification of a potential reliability problem in the other Party's Reliability Area, it will make reasonable efforts to provide written notice to the other Party as soon as possible. In the event such notification is made, the Parties agree that the notifying Party is not providing any warranty or guaranty that the potential problem actually exists. This provision shall also include the identification of any Interconnection frequency error causing a potential reliability problem. When any one Party identifies an overload emergency, a parallel path flow having significant impact, or other potential reliability situation that may impact another Party's Reliability Area and the affected Party does not observe a similar situation, the Parties will operate to the most conservative result until the Parties can identify the reasons for these difference(s).

Each impacted Party shall operate as though the Emergency exists during each instance where the Parties disagree on the existence of an Emergency. The Party that identifies an Emergency in its Reliability Coordinator Area shall develop an action plan to resolve the Emergency during those instances where the Parties disagree on the existence of an Emergency. The impacted Party shall implement the action plan developed by the Party that identifies the Emergency during those instances where a disagreement on the existence of an Emergency exist, unless such actions would violate safety, equipment, regulatory, or statutory requirements. If requested and able, each Party shall assist the other Party, provided that the requesting Party has implemented its emergency procedures, unless such actions cannot be physically implemented or would violate safety, equipment, regulatory, or statutory requirements.

Any emergency event where there was a disagreement on the existence of an emergency will be discussed by the Operating Committee as soon as practicable after the event.

# **PJM-VACAR South RC Agreement**

**SECTION 4.4 Data Exchange.** The Parties shall exchange the data that they require from each other to support their respective reliability coordination tasks and duties, as set forth in Exhibit C to this Agreement. The Party requesting that additional data be included in Exhibit C for exchange purposes must provide the other Party with a reliability-based justification for needing such data. In exchanging data, the Parties shall utilize the ISN or equivalent system in accordance with NERC Reliability Standards. The Party receiving a request to provide data has the right to accept or reject the other Party's justification. In the event a dispute arises regarding the need for such data to be exchanged, it shall be resolved in consultation with the appropriate Regional Entity.

**SECTION 4.5 Cost of Data and Information Exchange.** Each Party shall bear its own cost of providing the data and information to the other Parties as required under Exhibit C and otherwise under this Agreement.

## **SECTION 4.6 Outage Coordination**

### **SECTION 4.6.1 Planned Outages**

Each Party shall post transmission and generation outages to SDX System or succeeding system. Each Party shall communicate to the other Party potential impacts of proposed Scheduled Outages. Communication of outage schedules shall occur on a regular basis as determined jointly by the Parties or any future applicable Southeastern Electric Reliability Council, Inc., or NERC requirements.

### **SECTION 4.6.2 Forced Outages**

A Party experiencing any forced generation and transmission outages shall inform the other Party as soon as practicable within 30 minutes after the event.

**SECTION 4.7 Real-Time Activities.** In order to help ensure that each Party's operations are coordinated such that they will not have an adverse reliability impact on the other Party's Reliability Area and to preserve the reliability benefits of interconnected operations, each Party will implement protocols consistent with NERC IRO and EOP Reliability Standards.

## **SECTION 4.8 Restoration Coordination.**

**SECTION 4.8.1 Restoration Planning.** If a Party requires information from the other Party regarding elements of coordination, including criteria and conditions for reestablishing interconnections, in its restoration plan consistent with the then-current NERC EOP Standards, such other Party will provide any information for which there is a reliability need. Each Party will distribute for review its most recent restoration plan to the other Party as appropriate and consistent with the then-current NERC EOP Standards. If any conflicts between the restoration plans of the Parties are identified, the Parties will work to resolve them. If any interdependencies between Transmission Operators in their respective Reliability Areas are identified, the Parties will coordinate as appropriate.

## **PJM-VACAR South RC Agreement**

**SECTION 4.8.2. Restoration Implementation.** During restoration activities, each Party shall serve as a primary contact for the other Party regarding information about restoration activities in its Reliability Area. The Parties will maintain communications, monitor progress, and coordinate regarding any previously identified or new interdependencies between the Parties' Reliability Areas. Regarding the resynchronization of islanded areas that bridge boundaries between the Parties' respective Reliability Areas, each Party shall coordinate and authorize the resynchronization, if appropriate, and as consistent with then-current NERC EOP Standards.

**SECTION 4.9 Periodic Communication.** The Parties shall have periodic communications to support reliable system operations. The periodic communications and their periodicity include:

- (i) SERC Morning Conference Call - Daily
- (ii) VACAR South Outage Coordination Conference Call - Weekly

### **ARTICLE V FACILITY EVACUATION**

**SECTION 5.1 Article Definitions.** For purposes of this Article, the term "Party" shall mean either PJM or the VACAR South RC Agent, and the term "Parties" shall collectively mean PJM and the VACAR South RC Agent.

**SECTION 5.2 Facility Evacuations.** If either Party is required to evacuate its operational work area, it shall notify the other Party of such evacuation as soon as feasible by any practical means of communications. Exhibit D sets forth the Reliability Coordinator functions, if any, that the non-evacuating Party will be able to offer for the Reliability Area of the evacuating Party in such event. The contact information for the back-up control centers shall be reviewed once every three calendar years and updated as necessary.

### **ARTICLE VI LIMITATION ON OBLIGATION**

**SECTION 6.1** This Agreement is not intended to affect the control that PJM and VACAR South RC Parties, respectively, have over their own facilities and the use thereof.

**SECTION 6.2** Nothing in this Agreement shall require a Party to construct facilities primarily to the benefit of another Party.

**SECTION 6.3** Nothing in this Agreement shall entitle a Party to interfere with another Party's right to proceed with system additions or alterations, which, in its sole opinion, are required to provide adequate and reliable service to its customers.

**SECTION 6.4** Nothing in this Agreement shall require a Party to take any action requested by another Party, including without limitation the supply of emergency energy, load shedding, the expenditure of funds, or acquisition of equipment, if:

- (i) Such actions would, in its sole judgment, cause it to violate safety, equipment, or regulatory or statutory requirements; or

## PJM-VACAR South RC Agreement

- (ii) Such actions are not needed to prevent instability, separation or a cascading event (i.e., IROL violation); or
- (iii) Such actions, in the sole judgment of the Party, undermines the reliability of the Interconnection; or
- (iv) With the Requesting Party's load and generation balanced, such actions are not needed to avoid automatic under frequency load shedding due to an Eastern Interconnection frequency decline; or
- (v) Such actions are not the more conservative solution to a system problem identified by either Party, and the Parties do not agree on the appropriate solution to the system problem; or
- (vi) Another Party or Member System has not implemented measures comparable to those requested, consistent with NERC Reliability Standards.

In the event a VACAR South RC Party declines to take such requested actions, the declining VACAR South RC Party must, as soon as possible, notify the VACAR South RC Agent so that such information can be immediately relayed to PJM if PJM requested such action. In the event a member of PJM declines to take such requested actions, PJM must as soon as possible notify the VACAR South RC Agent if the VACAR South RC Agent requested such action.

### **ARTICLE VII** **LIABILITY**

**SECTION 7.1 No Liability.** In no event shall any Party (including its officers, directors, employees, and agents) be liable to another Party, or a Member System, or any other person or entity, for losses or damages (whether direct, indirect, incidental, or consequential) arising out of or related to any performance, non-performance or delay in performance of an obligation or action under this Agreement, whether based on contract, tort, strict liability, warranty, or otherwise, including without limitation, any action or failure to act by any Party related to any request, recommendation, or requirement of either, or another, Reliability Coordinator.

**SECTION 7.2 Indemnification.** Each Party shall at all times indemnify, defend, and save harmless the other Parties, their affiliates, and the officers, employee, and agents of each of them (collectively, the "Indemnified Parties"), from any and all damages, losses, claims, including, without limitation, claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorneys' fees, and all other obligations by or to third parties arising out of or resulting from its own performance or non-performance of its various reliability obligations, except in the event of recklessness, gross negligence, intentional wrongdoing, or willful misconduct by such other Indemnified Parties.

# PJM-VACAR South RC Agreement

## ARTICLE VIII MISCELLANEOUS PROVISIONS

**SECTION 8.1 Termination Notice.** Any termination notices required by this Agreement shall be in writing and may be given by hand or sent by first class U.S. Mail, or express mail delivery to the applicable address as provided below:

**If to PJM:**

PJM Interconnection, L.L.C.  
Mr. Michael E. Bryson, Vice President - Operations  
2750 Monroe Boulevard  
Valley Forge Corporate Center  
Audubon, PA 19403

**If to DEC and DEP:**

Duke Energy  
Mr. Samuel Holeman, Vice President, Transmission System Planning and Operations  
526 South Church Street, MC EC3ZJ  
Charlotte, NC 28202

**If to SCE&G:**

South Carolina Electric & Gas Company  
Mr. Pandelis N. Xanthakos, Vice President, Electric Transmission  
220 Operation Way  
Cayce, SC 29033

**If to SCPSA:**

South Carolina Public Service Authority  
Mr. Arnold Singleton, Sr. Vice President, Power Delivery  
One Riverwood Drive - M405  
Moncks Corner, SC 29461-6101

**If to CHC:**

Cube Hydro Carolinas, LLC  
Mr. Mark Gross, Vice President, Alcoa Power Generating Inc.  
Hydro Operations  
300 North Hall Road  
Alcoa, TN 37701

**SECTION 8.2 Waiver.** Any waiver at any time by any Party of its rights under this Agreement, or with respect to any other matter arising in connection with this Agreement, shall not be considered a waiver with respect to any subsequent default or matter.

## **PJM-VACAR South RC Agreement**

**SECTION 8.3 Assignment.** No Party shall sell, assign, or otherwise transfer any or all of this Agreement or any or all of its respective rights, or delegate any or all of its respective obligations under this Agreement without the prior written consent of the other Parties.

**SECTION 8.4 Merger Clause.** This Agreement and the Exhibits comprise the full and complete statement of the agreement between the Parties and supersedes and cancels all prior communications, understandings and agreements between the Parties, whether written or oral, expressed or implied relating to the subject matter of this Agreement. No amendments, changes or modifications to this Agreement are valid, unless made in writing and signed by a duly authorized representative of each of the Parties.

**SECTION 8.5 Responsibility for Costs.** No fees, or other amounts are payable as a result of application of this Agreement. Each Party shall be solely and independently responsible for its conduct and any expenses or costs incurred under this Agreement.

**SECTION 8.6 Nature of Relationship.** The Parties hereto agree that no employment, agency, joint venture, teaming, partnership, business arrangement or fiduciary relationship shall be deemed to exist or arise between them with respect to this Agreement.

**SECTION 8.7 Governing Law.** This Agreement, and the rights and obligations of the Parties arising out of this Agreement, shall be governed by and shall be construed, enforced, and performed in accordance with the Federal laws of the United States of America. To the extent that there is no applicable Federal law, this Agreement, and the rights and obligations of the Parties arising out of this Agreement, shall be governed by and shall be construed, enforced, and performed in accordance with the laws of the State of New York, without regard to the principles of conflicts of laws.

**SECTION 8.8 Headings.** The descriptive headings in the various Articles and Sections of this Agreement have been inserted for convenience of reference only, and shall in no way modify or restrict any of the terms and provisions hereof.

**SECTION 8.9 Exhibits.** The exhibits to this Agreement are attached hereto and incorporated by reference ("Exhibits"). The Exhibits may be amended from time to time as specifically set forth in the respective Exhibits.

**SECTION 8.10 Execution.** This Agreement may be executed simultaneously in two or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument. It shall not be necessary that any single counterpart hereof be executed by all Parties so long as at least one counterpart is executed by each Party. A facsimile or photocopy of any signature shall have the same force and effect as an original.

**SECTION 8.11 Other Entities.** Nothing in this Agreement is intended to confer benefits upon any person or entities not a Party. Nothing in this Agreement shall be construed as a stipulation for the benefit of others, and no third party, shall be entitled to enforce this Agreement against any Party.

## **PJM-VACAR South RC Agreement**

**SECTION 8.12 No Representation or Warranty.** No Party shall be deemed to make any representation or warranty, express or implied, as to the truth, accuracy or completeness of any information or data exchanged or provided (or not exchanged or provided) to the other Parties pursuant to this Agreement. The receiving Party, and all persons receiving such data and information, shall be solely responsible for any reliance thereon, and all investigation thereof, and expressly waive any and all rights of recourse against the Party providing the information.

**SECTION 8.13 Confidentiality.** The Parties agree that their confidentiality obligations under this Agreement shall be consistent with and subject to the requirements of the NERC Reliability Coordinator Standards of Conduct.

**SECTION 8.14 Definitions.** Any undefined, capitalized terms used in this Agreement shall have the meaning given under *Glossary of Terms Used in NERC Reliability Standards* (“NERC Glossary”). Any undefined, capitalized terms used in this Agreement that is not defined in the NERC Glossary shall have the meaning given under industry custom and, where applicable, in accordance with Good Utility Practices.

# PJM-VACAR South RC Agreement

## REVISION HISTORY

REVISION DATE	ACTION TAKEN
June 1, 2007	Original Agreement made May 23, 2007 with effective date on the first day of the month following the month in which all Parties have executed this Agreement
October 27, 2010	Agreement review conducted via Conference call dated on October 27, 2011 chaired by Don Reichenbach (Acting VACAR South RC Agent, Duke Energy, Manager, System Operations Engineering). M. Bryson at PJM reviewed the agreement. No changes noted
October 2013	Agreement review conducted via conference call on October 17, 2013 chaired by Don Reichenbach Acting VACAR South RC Agent, Duke Energy, Manager, System Operations Engineering) Added changes noted on the “RC-RC Agreements Summary of Changes_and_Review_Notes_Log.docx” As of October 1, 2012, SEPA is no longer a member of VACAR SOUTH RC and, therefore, the Parties removed SEPA as party to the agreement.
October 2014	Incorporated various clean-up revisions into the agreement
OCTOBER 10/2016	Agreement review conducted at the October 10, 2016 SERC RSSC Meeting with Don Reichenbach Acting VACAR South RC Agent, Duke Energy, Manager, System Operations Engineering; and Jack Thomas, PJM RC.
MARCH 28, 2017	Agreement review conducted by VACAR South RC Agent (Don Reichenbach) and PJM RC (Phil ‘D’Antonio). The following updates were made: <ul style="list-style-type: none"> <li>- Updated where needed and added language relative to NERC Standard IRO-014-3</li> <li>- Added Revision History Block</li> <li>- Submitted for legal review</li> </ul> Also, drafted a temporary “PJM-VACAR South RC Coordination and Notification Plan”, <b>Effective April 1, 2017</b>
MARCH 07, 2018	Agreement review conducted by VACAR South RC Agent (Don Reichenbach) and PJM RC (Donnie Bielak) The following updates were made in the sections notes: <ul style="list-style-type: none"> <li>• WITNESSETH                             <ul style="list-style-type: none"> <li>- Paragraph 2 – Removed Reference to reliability plan</li> <li>- Paragraph 5 – clarified VACAR South RC parties confirming of responsibilities</li> </ul> </li> <li>• Added footnote 1</li> <li>• Section 2.1 Term</li> <li>• Section 2.2 NERC Reliability Standards Revisions</li> <li>• Added Section 3.2 Dispute Resolution</li> <li>• SECTION 4.2.1 Process for Coordinating Energy Emergency Assistance</li> <li>• Added SECTION 4.5 Cost of Data and Information Exchange</li> <li>• Added SECTION 4.7 Real-Time Activities.</li> <li>• Added SECTION 4.8 Restoration Coordination</li> <li>• Added SECTION 4.9 Voltage and Reactive Resources Coordination</li> <li>• Added (iii) and (iv) to section 6.4</li> <li>• Updates Section 8.1 mailing list</li> <li>• Updated signatories</li> </ul> <b>Agreement Effective April 3, 2018</b>

## PJM-VACAR South RC Agreement

IN WITNESS WHEREOF, the signatories hereto have caused this Agreement to be executed by their duly authorized officers.

### FOR PJM INTERCONNECTION:

By: Michael E. Bryson  
Michael E. Bryson  
Vice President - Operations

Date: March 30, 2018

### VACAR SOUTH RC PARTIES:

#### FOR DEC and DEP:

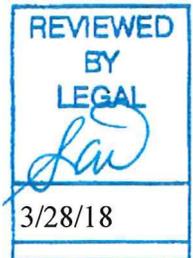
By: Mr. Samuel Holerman  
Mr. Samuel Holerman  
Vice President, Transmission System Planning and Operations  
Duke Energy

Date: 04/01/2018

#### FOR SCE&G:

By: P. Xanthakos  
Pandelis N. Xanthakos  
Vice President, Electric Transmission  
South Carolina Electric & Gas

Date: 3/28/18



#### FOR SCPSA:

By: Arnold Singleton  
Arnold Singleton  
Sr. Vice President, Power Delivery  
South Carolina Public Service Authority

Date: 4/3/18

#### FOR CHC:

By: Mark Gross  
Mark Gross  
Vice President, Operations  
Cube Hydro Carolinas, LLC

Date: 3/29/18

# **PJM-VACAR South RC Agreement**

## **EXHIBIT A**

### **PJM Members**

**See Schedule 12 of the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. for the List of PJM Members**

**In accordance with Section 8.9 (entitled “Exhibits”), this Exhibit A may be amended by PJM as necessary by the provision of written notice to the VACAR South RC Agent in a manner consistent with Section 8.1.**

# **PJM-VACAR South RC Agreement**

## **EXHIBIT B**

### **VACAR South RC Parties**

Duke Energy Progress, LLC

Duke Energy Carolinas, LLC

South Carolina Electric & Gas Company

South Carolina Public Service Authority

Cube Hydro Carolinas, LLC

**This Exhibit B may be amended by VACAR South RC as necessary by the provision of notice to the other Parties in accordance with Section 8.9 entitled “Exhibits.”**

# PJM-VACAR South RC Agreement

## EXHIBIT C

### List of Data Exchanged Pursuant to Section 4.3

*(The NERC Reliability Standards also include data that may be included in this Exhibit)*

The Parties will exchange the following types of real-time and projected operating data as needed to coordinate reliable operations:

- (i) Generation status of the units in each Party's Reliability Area;
- (ii) Transmission line status;
- (iii) Real-time loads; and
- (iv) Real-time constraints.

**This Exhibit C shall be amended only upon the written agreement of all Parties that must include the Party requesting data or information to be included in this Exhibit B providing a written, reliability-based justification to the other Parties for needing such additional data or information. The Party receiving a request to provide data has the right to accept or reject the other Party's justification. In the event a dispute arises regarding the need for such data to be exchanged, it shall be resolved in consultation with the appropriate regional council(s).**

# PJM-VACAR South RC Agreement

## EXHIBIT D

### Reliability Coordinator Facility Evacuation Procedures

**Reliability Coordinator functions, tasks and services to be provided by a non-evacuating Party in the event a Party must evacuate its facilities. Notice of evacuation to be provided pursuant to Article V to the appropriate individual identified in Section 8.1.**

Reliability Coordinator Functions, Tasks and Services to be Provided to PJM by the VACAR South RC Agent in Event of Evacuation with Proper Notice to the VACAR South RC Agent:

1. None

Reliability Coordinator Functions, Tasks and Services to be Provided to the VACAR South RC Agent by SCS in Event of Evacuation with Proper Notice to PJM:

1. None

**In accordance with Section 8.9 (entitled “Exhibits”), this Exhibit D shall be amended only upon the written agreement of both PJM and the VACAR South RC Agent.**