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- 23.0 Infrastructure Security of Electric System Equipment and Operations and Control Hardware and Software is Essential to Ensure Day-to-Day Reliability and Operational Security

Specifications for Interconnection Service Agreement

- 1.0 Description of [generating unit(s)] [Merchant Transmission Facilities] (the Customer Facility) to be Interconnected with the Transmission System in the PJM Region
- 2.0 Rights
- 3.0 Construction Responsibility and Ownership of Interconnection Facilities
- 4.0 Subject to Modification Pursuant to the Negotiated Contract Option
- 4.1 Attachment Facilities Charge
- 4.2 Network Upgrades Charge
- 4.3 Local Upgrades Charge
- 4.4 Other Charges
- 4.5 Cost breakdown
- 4.6 Security Amount Breakdown

ATTACHMENT O APPENDIX 1: Definitions

ATTACHMENT O APPENDIX 2: Standard Terms and Conditions for Interconnections

- 1 Commencement, Term of and Conditions Precedent to
 - **Interconnection Service**
 - 1.1 Commencement Date
 - 1.2 Conditions Precedent
 - 1.3 Term
 - 1.4 Initial Operation

- 1.4A Other Interconnection Options
- 1.5 Survival

2 Interconnection Service

- 2.1 Scope of Service
- 2.2 Non-Standard Terms
- 2.3 No Transmission Services
- 2.4 Use of Distribution Facilities
- 2.5 Election by Behind The Meter Generation

3 Modification Of Facilities

- 3.1 General
- 3.2 Interconnection Request
- 3.3 Standards
- 3.4 Modification Costs

4 Operations

- 4.1 General
- 4.2 [Reserved]
- 4.3 Interconnection Customer Obligations
- 4.4 Transmission Interconnection Customer Obligations
- 4.5 Permits and Rights-of-Way
- 4.6 No Ancillary Services
- 4.7 Reactive Power
- 4.8 Under- and Over-Frequency and Under- and Over- Voltage Conditions
- 4.9 System Protection and Power Quality
- 4.10 Access Rights
- 4.11 Switching and Tagging Rules
- 4.12 Communications and Data Protocol
- 4.13 Nuclear Generating Facilities

5 Maintenance

- 5.1 General
- 5.2 [Reserved]
- 5.3 Outage Authority and Coordination
- 5.4 Inspections and Testing
- 5.5 Right to Observe Testing
- 5.6 Secondary Systems
- 5.7 Access Rights
- 5.8 Observation of Deficiencies

6 Emergency Operations

- 6.1 Obligations
- 6.2 Notice
- 6.3 Immediate Action
- 6.4 Record-Keeping Obligations

7 Safety

- 7.1 General
- 7.2 Environmental Releases

8 Metering

8.1 General

- 8.2 Standards
- 8.3 Testing of Metering Equipment
- 8.4 Metering Data
- 8.5 Communications

9 Force Majeure

- 9.1 Notice
- 9.2 Duration of Force Majeure
- 9.3 Obligation to Make Payments
- 9.4 Definition of Force Majeure

10 Charges

- 10.1 Specified Charges
- 10.2 FERC Filings

11 Security, Billing And Payments

- 11.1 Recurring Charges Pursuant to Section 10
- 11.2 Costs for Transmission Owner Interconnection Facilities
- 11.3 No Waiver
- 11.4 Interest

12 Assignment

- 12.1 Assignment with Prior Consent
- 12.2 Assignment Without Prior Consent
- 12.3 Successors and Assigns

13 Insurance

- 13.1 Required Coverages for Generation Resources Of More Than 20 Megawatts and Merchant Transmission Facilities
- 13.1A Required Coverages for Generation Resources Of 20 Megawatts Or Less
- 13.2 Additional Insureds
- 13.3 Other Required Terms
- 13.3A No Limitation of Liability
- 13.4 Self-Insurance
- 13.5 Notices; Certificates of Insurance
- 13.6 Subcontractor Insurance
- 13.7 Reporting Incidents

14 Indemnity

- 14.1 Indemnity
- 14.2 Indemnity Procedures
- 14.3 Indemnified Person
- 14.4 Amount Owing
- 14.5 Limitation on Damages
- 14.6 Limitation of Liability in Event of Breach
- 14.7 Limited Liability in Emergency Conditions

15 Breach, Cure And Default

- 15.1 Breach
- 15.2 Continued Operation
- 15.3 Notice of Breach
- 15.4 Cure and Default

- 15.5 Right to Compel Performance
- 15.6 Remedies Cumulative

16 Termination

- 16.1 Termination
- 16.2 Disposition of Facilities Upon Termination
- 16.3 FERC Approval
- 16.4 Survival of Rights

17 Confidentiality

- 17.1 Term
- 17.2 Scope
- 17.3 Release of Confidential Information
- 17.4 Rights
- 17.5 No Warranties
- 17.6 Standard of Care
- 17.7 Order of Disclosure
- 17.8 Termination of Interconnection Service Agreement
- 17.9 Remedies
- 17.10 Disclosure to FERC or its Staff
- 17.11 No Interconnection Party Shall Disclose Confidential Information
- 17.12 Information that is Public Domain
- 17.13 Return or Destruction of Confidential Information

18 Subcontractors

- 18.1 Use of Subcontractors
- 18.2 Responsibility of Principal
- 18.3 Indemnification by Subcontractors
- 18.4 Subcontractors Not Beneficiaries

19 Information Access And Audit Rights

- 19.1 Information Access
- 19.2 Reporting of Non-Force Majeure Events
- 19.3 Audit Rights

20 Disputes

- 20.1 Submission
- 20.2 Rights Under The Federal Power Act
- 20.3 Equitable Remedies

21 Notices

- 21.1 General
- 21.2 Emergency Notices
- 21.3 Operational Contacts

22 Miscellaneous

- 22.1 Regulatory Filing
- 22.2 Waiver
- 22.3 Amendments and Rights Under the Federal Power Act
- 22.4 Binding Effect
- 22.5 Regulatory Requirements

23 Representations And Warranties

23.1 General

24 Tax Liability

- 24.1 Safe Harbor Provisions
- 24.2. Tax Indemnity
- 24.3 Taxes Other Than Income Taxes
- 24.4 Income Tax Gross-Up
- 24.5 Tax Status

ATTACHMENT O - SCHEDULE A

Customer Facility Location/Site Plan

ATTACHMENT O - SCHEDULE B

Single-Line Diagram

ATTACHMENT O - SCHEDULE C

List of Metering Equipment

ATTACHMENT O - SCHEDULE D

Applicable Technical Requirements and Standards

ATTACHMENT O - SCHEDULE E

Schedule of Charges

ATTACHMENT O - SCHEDULE F

Schedule of Non-Standard Terms & Conditions

ATTACHMENT O - SCHEDULE G

Interconnection Customer's Agreement to Conform with IRS Safe Harbor

Provisions for Non-Taxable Status

ATTACHMENT O - SCHEDULE H

Interconnection Requirements for a Wind Generation Facility

ATTACHMENT O - SCHEDULE I

Interconnection Specifications for an Energy Storage Resource

ATTACHMENT O - SCHEDULE J

Schedule of Terms and Conditions for Surplus Interconnection Service

ATTACHMENT O – SCHEDULE K

Requirements for Interconnection Service Below Full Electrical Generating Capability

ATTACHMENT 0-1

Form of Interim Interconnection Service Agreement

ATTACHMENT 0-2

Form of Network Upgrade Funding Agreement

ATTACHMENT P

Form of Interconnection Construction Service Agreement

- 1.0 Parties
- 2.0 Authority
- 3.0 Customer Facility
- 4.0 Effective Date and Term
 - 4.1 Effective Date
 - 4.2 Term
 - 4.3 Survival
- 5.0 Construction Responsibility
- 6.0 [Reserved.]
- 7.0 Scope of Work

- 8.0 Schedule of Work
- 9.0 [Reserved.]
- 10.0 Notices
- 11.0 Waiver
- 12.0 Amendment
- 13.0 Incorporation Of Other Documents
- 14.0 Addendum of Interconnection Customer's Agreement to Conform with IRS Safe Harbor Provisions for Non-Taxable Status
- 15.0 Addendum of Non-Standard Terms and Conditions for Interconnection Service
- 16.0 Addendum of Interconnection Requirements for a Wind Generation Facility
- 17.0 Infrastructure Security of Electric System Equipment and Operations and Control Hardware and Software is Essential to Ensure Day-to-Day Reliability and Operational Security

ATTACHMENT P - APPENDIX 1 – DEFINITIONS

ATTACHMENT P - APPENDIX 2 – STANDARD CONSTRUCTION TERMS AND CONDITIONS

Preamble

- 1 Facilitation by Transmission Provider
- **2** Construction Obligations
 - 2.1 Interconnection Customer Obligations
 - 2.2 Transmission Owner Interconnection Facilities and Merchant Network Upgrades
 - 2.2A Scope of Applicable Technical Requirements and Standards
 - 2.3 Construction By Interconnection Customer
 - 2.4 Tax Liability
 - 2.5 Safety
 - 2.6 Construction-Related Access Rights
 - 2.7 Coordination Among Constructing Parties
- 3 Schedule of Work
 - 3.1 Construction by Interconnection Customer
 - 3.2 Construction by Interconnected Transmission Owner
 - 3.2.1 Standard Option
 - 3.2.2 Negotiated Contract Option
 - 3.2.3 Option to Build
 - 3.3 Revisions to Schedule of Work
 - 3.4 Suspension
 - 3.4.1 Costs
 - 3.4.2 Duration of Suspension
 - 3.5 Right to Complete Transmission Owner Interconnection Facilities
 - 3.6 Suspension of Work Upon Default
 - 3.7 Construction Reports
 - 3.8 Inspection and Testing of Completed Facilities
 - 3.9 Energization of Completed Facilities
 - 3.10 Interconnected Transmission Owner's Acceptance of Facilities Constructed by Interconnection Customer

4 Transmission Outages

4.1 Outages; Coordination

5 Land Rights; Transfer of Title

- 5.1 Grant of Easements and Other Land Rights
- 5.2 Construction of Facilities on Interconnection Customer Property
- 5.3 Third Parties
- 5.4 Documentation
- 5.5 Transfer of Title to Certain Facilities Constructed By Interconnection Customer
- 5.6 Liens

6 Warranties

- 6.1 Interconnection Customer Warranty
- 6.2 Manufacturer Warranties
- 7 [Reserved.]
- 8 [Reserved.]

9 Security, Billing And Payments

- 9.1 Adjustments to Security
- 9.2 Invoice
- 9.3 Final Invoice
- 9.4 Disputes
- 9.5 Interest
- 9.6 No Waiver

10 Assignment

- 10.1 Assignment with Prior Consent
- 10.2 Assignment Without Prior Consent
- 10.3 Successors and Assigns

11 Insurance

- 11.1 Required Coverages For Generation Resources Of More Than 20 Megawatts and Merchant Transmission Facilities
- 11.1A Required Coverages For Generation Resources of
- 20 Megawatts Or Less
- 11.2 Additional Insureds
- 11.3 Other Required Terms
- 11.3A No Limitation of Liability
- 11.4 Self-Insurance
- 11.5 Notices; Certificates of Insurance
- 11.6 Subcontractor Insurance
- 11.7 Reporting Incidents

12 Indemnity

- 12.1 Indemnity
- 12.2 Indemnity Procedures
- 12.3 Indemnified Person
- 12.4 Amount Owing
- 12.5 Limitation on Damages
- 12.6 Limitation of Liability in Event of Breach
- 12.7 Limited Liability in Emergency Conditions

13 Breach, Cure And Default

- 13.1 Breach
- 13.2 Notice of Breach
- 13.3 Cure and Default
- 13.3.1 Cure of Breach
- 13.4 Right to Compel Performance
- 13.5 Remedies Cumulative

14 Termination

- 14.1 Termination
- 14.2 [Reserved.]
- 14.3 Cancellation By Interconnection Customer
- 14.4 Survival of Rights

15 Force Majeure

- 15.1 Notice
- 15.2 Duration of Force Majeure
- 15.3 Obligation to Make Payments
- 15.4 Definition of Force Majeure

16 Subcontractors

- 16.1 Use of Subcontractors
- 16.2 Responsibility of Principal
- 16.3 Indemnification by Subcontractors
- 16.4 Subcontractors Not Beneficiaries

17 Confidentiality

- 17.1 Term
- 17.2 Scope
- 17.3 Release of Confidential Information
- 17.4 Rights
- 17.5 No Warranties
- 17.6 Standard of Care
- 17.7 Order of Disclosure
- 17.8 Termination of Construction Service Agreement
- 17.9 Remedies
- 17.10 Disclosure to FERC or its Staff
- 17.11 No Construction Party Shall Disclose Confidential Information of Another Construction Party 17.12 Information that is Public Domain
- 17.13 Return or Destruction of Confidential Information

18 Information Access And Audit Rights

- 18.1 Information Access
- 18.2 Reporting of Non-Force Majeure Events
- 18.3 Audit Rights

19 Disputes

- 19.1 Submission
- 19.2 Rights Under The Federal Power Act
- 19.3 Equitable Remedies

20 Notices

20.1 General

20.2 Operational Contacts

21 Miscellaneous

- 21.1 Regulatory Filing
- 21.2 Waiver
- 21.3 Amendments and Rights under the Federal Power Act
- 21.4 Binding Effect
- 21.5 Regulatory Requirements

Representations and Warranties

22.1 General

ATTACHMENT P - SCHEDULE A

Site Plan

ATTACHMENT P - SCHEDULE B

Single-Line Diagram of Interconnection Facilities

ATTACHMENT P - SCHEDULE C

Transmission Owner Interconnection Facilities to be Built by Interconnected Transmission Owner

ATTACHMENT P - SCHEDULE D

Transmission Owner Interconnection Facilities to be Built by Interconnection Customer Pursuant to Option to Build

ATTACHMENT P - SCHEDULE E

Merchant Network Upgrades to be Built by Interconnected Transmission Owner

ATTACHMENT P - SCHEDULE F

Merchant Network Upgrades to be Built by Interconnection Customer

Pursuant to Option to Build

ATTACHMENT P - SCHEDULE G

Customer Interconnection Facilities

ATTACHMENT P - SCHEDULE H

Negotiated Contract Option Terms

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Scope of Work

ATTACHMENT P - SCHEDULE J

Schedule of Work

ATTACHMENT P - SCHEDULE K

Applicable Technical Requirements and Standards

ATTACHMENT P - SCHEDULE L

Interconnection Customer's Agreement to Confirm with IRS Safe Harbor

Provisions For Non-Taxable Status

ATTACHMENT P - SCHEDULE M

Schedule of Non-Standard Terms and Conditions

ATTACHMENT P - SCHEDULE N

Interconnection Requirements for a Wind Generation Facility

ATTACHMENT Q

PJM Credit Policy

ATTACHMENT R

Lost Revenues Of PJM Transmission Owners And Distribution of Revenues Remitted By MISO, SECA Rates to Collect PJM Transmission Owner Lost Revenues Under Attachment X, And Revenues From PJM Existing Transactions

ATTACHMENT S

Form of Transmission Interconnection Feasibility Study Agreement

ATTACHMENT T

Identification of Merchant Transmission Facilities

ATTACHMENT U

Independent Transmission Companies

ATTACHMENT V

Form of ITC Agreement

ATTACHMENT W

COMMONWEALTH EDISON COMPANY

ATTACHMENT X

Seams Elimination Cost Assignment Charges

NOTICE OF ADOPTION OF NERC TRANSMISSION LOADING RELIEF PROCEDURES

NOTICE OF ADOPTION OF LOCAL TRANSMISSION LOADING REIEF PROCEDURES

SCHEDULE OF PARTIES ADOPTING LOCAL TRANSMISSION LOADING RELIEF PROCEDURES

ATTACHMENT Y

Forms of Screens Process Interconnection Request (For Generation Facilities of 2 MW or less)

ATTACHMENT Z

Certification Codes and Standards

ATTACHMENT AA

Certification of Small Generator Equipment Packages

ATTACHMENT BB

Form of Certified Inverter-Based Generating Facility No Larger Than 10 kW Interconnection Service Agreement

ATTACHMENT CC

Form of Certificate of Completion

(Small Generating Inverter Facility No Larger Than 10 kW)

ATTACHMENT DD

Reliability Pricing Model

ATTACHMENT EE

Form of Upgrade Request

ATTACHMENT FF

[Reserved]

ATTACHMENT GG

Form of Upgrade Construction Service Agreement

Article 1 – Definitions And Other Documents

1.0 Defined Terms

1.1 Incorporation of Other Documents

Article 2 – Responsibility for Direct Assignment Facilities or Customer-Funded Upgrades

- 2.0 New Service Customer Financial Responsibilities
- 2.1 Obligation to Provide Security
- 2.2 Failure to Provide Security
- 2.3 Costs
- 2.4 Transmission Owner Responsibilities
- Article 3 Rights To Transmission Service
 - 3.0 No Transmission Service
- Article 4 Early Termination
 - 4.0 Termination by New Service Customer
- Article 5 Rights
 - 5.0 Rights
 - 5.1 Amount of Rights Granted
 - 5.2 Availability of Rights Granted
 - 5.3 Credits

Article 6 – Miscellaneous

- 6.0 Notices
- 6.1 Waiver
- 6.2 Amendment
- 6.3 No Partnership
- 6.4 Counterparts

ATTACHMENT GG - APPENDIX I -

SCOPE AND SCHEDULE OF WORK FOR DIRECT ASSIGNMENT FACILITIES OR CUSTOMER-FUNDED UPGRADES TO BE BUILT BY TRANSMISSION OWNER

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- 1 Definitions
 - 1.1 Affiliate
 - 1.2 Applicable Laws and Regulations
 - 1.3 Applicable Regional Reliability Council
 - 1.4 Applicable Standards
 - 1.5 Breach
 - 1.6 Breaching Party
 - 1.7 Cancellation Costs
 - 1.8 Commission
 - 1.9 Confidential Information
 - 1.10 Constructing Entity
 - 1.11 Control Area
 - 1.12 Costs
 - 1.13 Default
 - 1.14 Delivering Party
 - 1.15 Emergency Condition
 - 1.16 Environmental Laws
 - 1.17 Facilities Study
 - 1.18 Federal Power Act

- 1.19 FERC
- 1.20 Firm Point-To-Point
- 1.21 Force Majeure
- 1.22 Good Utility Practice
- 1.23 Governmental Authority
- 1.24 Hazardous Substances
- 1.25 Incidental Expenses
- 1.26 Local Upgrades
- 1.27 Long-Term Firm Point-To-Point Transmission Service
- 1.28 MAAC
- 1.29 MAAC Control Zone
- 1.30 NERC
- 1.31 Network Upgrades
- 1.32 Office of the Interconnection
- 1.33 Operating Agreement of the PJM Interconnection, L.L.C. or Operating Agreement
- 1.34 Part I
- 1.35 Part II
- 1.36 Part III
- 1.37 Part IV
- 1.38 Part VI
- 1.39 PJM Interchange Energy Market
- 1.40 PJM Manuals
- 1.41 PJM Region
- 1.42 PJM West Region
- 1.43 Point(s) of Delivery
- 1.44 Point(s) of Receipt
- 1.45 Project Financing
- 1.46 Project Finance Entity
- 1.47 Reasonable Efforts
- 1.48 Receiving Party
- 1.49 Regional Transmission Expansion Plan
- 1.50 Schedule and Scope of Work
- 1.51 Security
- 1.52 Service Agreement
- 1.53 State
- 1.54 Transmission System
- 1.55 VACAR

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- 1.0 Effective Date and Term
 - 1.1 Effective Date
 - 1.2 Term
 - 1.3 Survival
- 2.0 Facilitation by Transmission Provider
- 3.0 Construction Obligations
 - 3.1 Direct Assignment Facilities or Customer-Funded Upgrades

- 3.2 Scope of Applicable Technical Requirements and Standards
- 4.0 Tax Liability
 - 4.1 New Service Customer Payments Taxable
 - 4.2 Income Tax Gross-Up
 - 4.3 Private Letter Ruling
 - 4.4 Refund
 - 4.5 Contests
 - 4.6 Taxes Other Than Income Taxes
 - 4.7 Tax Status
- 5.0 Safety
 - 5.1 General
 - 5.2 Environmental Releases
- 6.0 Schedule Of Work
 - 6.1 Standard Option
 - 6.2 Option to Build
 - 6.3 Revisions to Schedule and Scope of Work
 - 6.4 Suspension
- 7.0 Suspension of Work Upon Default
 - 7.1 Notification and Correction of Defects
- 8.0 Transmission Outages
 - 8.1 Outages; Coordination
- 9.0 Security, Billing and Payments
 - 9.1 Adjustments to Security
 - 9.2 Invoice
 - 9.3 Final Invoice
 - 9.4 Disputes
 - 9.5 Interest
 - 9.6 No Waiver
- 10.0 Assignment
 - 10.1 Assignment with Prior Consent
 - 10.2 Assignment Without Prior Consent
 - 10.3 Successors and Assigns
- 11.0 Insurance
 - 11.1 Required Coverages
 - 11.2 Additional Insureds
 - 11.3 Other Required Terms
 - 11.4 No Limitation of Liability
 - 11.5 Self-Insurance
 - 11.6 Notices: Certificates of Insurance
 - 11.7 Subcontractor Insurance
 - 11.8 Reporting Incidents
- 12.0 Indemnity
 - 12.1 Indemnity
 - 12.2 Indemnity Procedures
 - 12.3 Indemnified Person
 - 12.4 Amount Owing

- 12.5 Limitation on Damages
- 12.6 Limitation of Liability in Event of Breach
- 12.7 Limited Liability in Emergency Conditions
- 13.0 Breach, Cure And Default
 - 13.1 Breach
 - 13.2 Notice of Breach
 - 13.3 Cure and Default
 - 13.4 Right to Compel Performance
 - 13.5 Remedies Cumulative
- 14.0 Termination
 - 14.1 Termination
 - 14.2 Cancellation By New Service Customer
 - 14.3 Survival of Rights
 - 14.4 Filing at FERC
- 15.0 Force Majeure
 - 15.1 Notice
 - 15.2 Duration of Force Majeure
 - 15.3 Obligation to Make Payments
- 16.0 Confidentiality
 - 16.1 Term
 - 16.2 Scope
 - 16.3 Release of Confidential Information
 - 16.4 Rights
 - 16.5 No Warranties
 - 16.6 Standard of Care
 - 16.7 Order of Disclosure
 - 16.8 Termination of Upgrade Construction Service Agreement
 - 16.9 Remedies
 - 16.10 Disclosure to FERC or its Staff
 - 16.11 No Party Shall Disclose Confidential Information of Party 16.12 Information that is Public Domain
 - 16.13 Return or Destruction of Confidential Information
- 17.0 Information Access And Audit Rights
 - 17.1 Information Access
 - 17.2 Reporting of Non-Force Majeure Events
 - 17.3 Audit Rights
 - 17.4 Waiver
 - 17.5 Amendments and Rights under the Federal Power Act
 - 17.6 Regulatory Requirements
- 18.0 Representation and Warranties
 - 18.1 General
- 19.0 Inspection and Testing of Completed Facilities
 - 19.1 Coordination
 - 19.2 Inspection and Testing
 - 19.3 Review of Inspection and Testing by Transmission Owner
 - 19.4 Notification and Correction of Defects

- 19.5 Notification of Results
- 20.0 Energization of Completed Facilities
- 21.0 Transmission Owner's Acceptance of Facilities Constructed by New Service Customer
- 22.0 Transfer of Title to Certain Facilities Constructed By New Service Customer
- 23.0 Liens

ATTACHMENT HH - RATES, TERMS, AND CONDITIONS OF SERVICE FOR PJMSETTLEMENT, INC.

ATTACHMENT II – MTEP PROJECT COST RECOVERY FOR ATSI ZONE

ATTACHMENT JJ - MTEP PROJECT COST RECOVERY FOR DEOK ZONE

ATTACHMENT KK - FORM OF DESIGNATED ENTITY AGREEMENT

ATTACHMENT LL - FORM OF INTERCONNECTION COORDINATION AGREEMENT

ATTACHMENT MM – FORM OF PSEUDO-TIE AGREEMENT – WITH NATIVE BA AS PARTY

ATTACHMENT MM-1 – FORM OF SYSTEM MODIFICATION COST REIMBURSEMENT AGREEMENT – PSEUDO-TIE INTO PJM

ATTACHMENT NN – FORM OF PSEUDO-TIE AGREEMENT WITHOUT NATIVE BA AS PARTY

ATTACHMENT OO – FORM OF DYNAMIC SCHEDULE AGREEMENT INTO THE PJM REGION

ATTACHMENT PP – FORM OF FIRM TRANSMISSION FEASIBILITY STUDY AGREEMENT