

## TABLE OF CONTENTS

### **I. COMMON SERVICE PROVISIONS**

- 1**     **Definitions**
  - OATT Definitions – A – B**
  - OATT Definitions – C – D**
  - OATT Definitions – E – F**
  - OATT Definitions – G – H**
  - OATT Definitions – I – J – K**
  - OATT Definitions – L – M – N**
  - OATT Definitions – O – P – Q**
  - OATT Definitions – R – S**
  - OATT Definitions - T – U – V**
  - OATT Definitions – W – X – Y - Z**
- 2**     **Initial Allocation and Renewal Procedures**
- 3**     **Ancillary Services**
- 3B**    **PJM Administrative Service**
- 3C**    **Mid-Atlantic Area Council Charge**
- 3D**    **Transitional Market Expansion Charge**
- 3E**    **Transmission Enhancement Charges**
- 3F**    **Transmission Losses**
- 4**     **Open Access Same-Time Information System (OASIS)**
- 5**     **Local Furnishing Bonds**
- 6**     **Reciprocity**
- 6A**    **Counterparty**
- 7**     **Billing and Payment**
- 8**     **Accounting for a Transmission Owner’s Use of the Tariff**
- 9**     **Regulatory Filings**
- 10**    **Force Majeure and Indemnification**
- 11**    **Creditworthiness**
- 12**    **Dispute Resolution Procedures**
- 12A**   **PJM Compliance Review**

### **II. POINT-TO-POINT TRANSMISSION SERVICE**

- Preamble**
- 13**    **Nature of Firm Point-To-Point Transmission Service**
- 14**    **Nature of Non-Firm Point-To-Point Transmission Service**
- 15**    **Service Availability**
- 16**    **Transmission Customer Responsibilities**
- 17**    **Procedures for Arranging Firm Point-To-Point Transmission Service**
- 18**    **Procedures for Arranging Non-Firm Point-To-Point Transmission Service**
- 19**    **System Impact Feasibility Study Procedures For Long-Term Firm Point-To-Point Transmission Service Requests**
- 20**    **[Reserved]**

- 21 [Reserved]
- 22 Changes in Service Specifications
- 23 Sale or Assignment of Transmission Service
- 24 Metering and Power Factor Correction at Receipt and Delivery Points(s)
- 25 Compensation for Transmission Service
- 26 Stranded Cost Recovery
- 27 Compensation for New Facilities and Redispatch Costs
- 27A Distribution of Revenues from Non-Firm Point-to-Point Transmission Service

### **III. NETWORK INTEGRATION TRANSMISSION SERVICE**

#### **Preamble**

- 28 Nature of Network Integration Transmission Service
- 29 Initiating Service
- 30 Network Resources
- 31 Designation of Network Load
- 32 System Impact Study Procedures for Network Integration Transmission Service Requests
- 33 Load Shedding and Curtailments
- 34 Rates and Charges
- 35 Operating Arrangements

### **IV. INTERCONNECTIONS WITH THE TRANSMISSION SYSTEM**

#### **Preamble**

#### **Subpart A –INTERCONNECTION PROCEDURES**

- 36 Interconnection Requests
- 37 Additional Procedures
- 38 Service on Merchant Transmission Facilities
- 39 Local Furnishing Bonds
- 40 Non-Binding Dispute Resolution Procedures
- 41 Interconnection Study Statistics

42 – 108 [Reserved]

Subpart B – [Reserved]

Subpart C – [Reserved]

Subpart D – [Reserved]

Subpart E – [Reserved]

Subpart F – [Reserved]

#### **Subpart G – SMALL GENERATION INTERCONNECTION PROCEDURE**

#### **Preamble**

- 109 Pre-application Process
- 110 Permanent Capacity Resource Additions Of 20 MW Or Less
- 111 Permanent Energy Resource Additions of 20 MW or Less but Greater than 2 MW (Synchronous) or Greater than 5 MW (Inverter-based)
- 112 Temporary Energy Resource Additions of 20 MW or Less but Greater than 2 MW (Synchronous) or Greater than 5 MW (Inverter-based)

- 112A Permanent or Temporary Energy Resources of 2 MW or Less (Synchronous) or 5 MW or Less (Inverter-based)
- 112B Certified Inverter-Based Small Generating Facilities No Larger than 10 kW
- 112C [Reserved]

**V. GENERATION DEACTIVATION**

**Preamble**

- 113 Notices
- 114 Deactivation Avoidable Cost Credit
- 115 Deactivation Avoidable Cost Rate
- 116 Filing and Updating of Deactivation Avoidable Cost Rate
- 117 Excess Project Investment Required
- 118 Refund of Project Investment Reimbursement
- 118A Recovery of Project Investment
- 119 Cost of Service Recovery Rate
- 120 Cost Allocation
- 121 Performance Standards
- 122 Black Start Units
- 123-199 [Reserved]

**VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; RIGHTS ASSOCIATED WITH CUSTOMER-FUNDED UPGRADES**

**Preamble**

- 200 Applicability
- 201 Queue Position
- Subpart A – SYSTEM IMPACT STUDIES AND FACILITIES STUDIES FOR NEW SERVICE REQUESTS**
- 202 Coordination with Affected Systems
- 203 System Impact Study Agreement
- 204 Tender of System Impact Study Agreement
- 205 System Impact Study Procedures
- 206 Facilities Study Agreement
- 207 Facilities Study Procedures
- 208 Expedited Procedures for Part II Requests
- 209 Optional Interconnection Studies
- 210 Responsibilities of the Transmission Provider and Transmission Owners
- Subpart B– AGREEMENTS AND COST RESPONSIBILITY FOR CUSTOMER-FUNDED UPGRADES**
- 211 Interim Interconnection Service Agreement
- 212 Interconnection Service Agreement
- 213 Upgrade Construction Service Agreement
- 214 Filing/Reporting of Agreements
- 215 Transmission Service Agreements
- 216 Interconnection Requests Designated as Market Solutions
- 217 Cost Responsibility for Necessary Facilities and Upgrades

- 218 New Service Requests Involving Affected Systems
- 219 Inter-queue Allocation of Costs of Transmission Upgrades
- 220 Advance Construction of Certain Network Upgrades
- 221 Transmission Owner Construction Obligation for Necessary Facilities and Upgrades
- 222 Confidentiality
- 223 Confidential Information
- 224 – 229 [Reserved]
- Subpart C – RIGHTS RELATED TO CUSTOMER-FUNDED UPGRADES**
- 230 Capacity Interconnection Rights
- 231 Incremental Auction Revenue Rights
- 232 Transmission Injection Rights and Transmission Withdrawal Rights
- 233 Incremental Available Transfer Capability Revenue Rights
- 234 Incremental Capacity Transfer Rights
- 235 Incremental Deliverability Rights
- 236 Interconnection Rights for Certain Transmission Interconnections
- 237 IDR Transfer Agreements
- 238 – 299 [Reserved]

**VII. TRANSITION CYCLE, GENERATION INTERCONNECTION PROCEDURE**

**Subpart A – INTRODUCTION**

- 300 Definitions
- 301 Transition Introduction
- 302 Site Control

**Subpart B – AE1-AG1 TRANSITION CYCLE #1**

- 303 Transition Eligibility
- 304 AE1-AG1 Expedited Process Eligibility

**Subpart C – AG2-AH1 TRANSITION CYCLE #2**

- 305 Introduction, Overview and Eligibility
- 306 Application Rules

**Subpart D – PHASES AND DECISION POINTS**

- 307 Introduction
- 308 Phase I
- 309 Decision Point I
- 310 Phase II
- 311 Decision Point II
- 312 Phase III
- 313 Decision Point III
- 314 Final Agreement Negotiation Phase

**Subpart E – MISCELLANEOUS**

- 315 Assignment of Project Identifier
- 316 Service Below The Meter Generator
- 317 Behind The Meter Generation
- 318 Base Case Data
- 319 Service on Merchant Transmission Facilities

- 320 Local Furnishing Bonds
- 321 Internal Dispute Resolution Procedures
- 322 Responsibilities of Transmission Provider and Transmission Owner
- 323 Additional Upgrades
- 324 IDR Transfer Agreement
- 325 Regional Transmission Expansion Plan
- 326 Transmission Owner Construction Obligation for Necessary Facilities and Upgrade
- 327 Confidentiality
- 328 Capacity Interconnection Rights
- 329 Incremental Rights
- 330 Rights for Transmission Interconnections
- 331 Milestones
- 332 Winter Capacity Interconnection Rights
- 333 Interconnection Studies Processing Time and Metrics
- 334 Transmission Provider Website Postings
- Subpart F – WHOLESALE MARKET PARTICIPATION AGREEMENT/NON-JURISDICTIONAL AGREEMENTS
- 335 Wholesale Market Participation Agreement/Non-Jurisdictional Agreements
- Subpart G – AFFECTED SYSTEM RULES
- 336 Affected System Rules
- Subpart H – UPGRADE REQUESTS
- 337 Upgrade Requests
- 338 – 399 [Reserved]

## **VIII NEW RULES, GENERATION INTERCONNECTION PROCEDURE**

- Subpart A – INTRODUCTION
- 400 Definitions
- 401 Applications for Cycle Process, Introduction
- 402 Applications for Cycle Process, Site Control
- Subpart B – APPLICATION RULES
- 403 Application Rules
- Subpart C – PHASES AND DECISION POINTS
- 404 Introduction
- 405 Phase I
- 406 Decision Point I
- 407 Phase II
- 408 Decision Point II
- 409 Phase III
- 410 Decision Point III
- Subpart D – FINAL AGREEMENT NEGOTIATION PHASE
- 411 Final Agreement Negotiation Phase
- Subpart E – MISCELLANEOUS
- 412 Assignment of Project Identifier
- 413 Service Below Generating Capability
- 414 Surplus Interconnection Service

415	Behind The Meter Generation
416	Base Case Data
417	Service on Merchant Transmission Facilities
418	Local Furnishing Bonds
419	Internal Dispute Resolution Procedures
420	Responsibilities of Transmission Provider and Transmission Owners
421	Additional Upgrades
422	IDR Transfer Agreement
423	Regional Transmission Expansion Plan
424	Transmission Owner Construction Obligation for Necessary Facilities and Upgrades
425	Confidentiality
426	Capacity Interconnection Rights
427	Incremental Rights
428	Rights for Transmission Interconnections
429	Milestones
430	Winter Capacity Interconnection Rights
431	Interconnection Studies Processing Time and Metrics
432	Transmission Provider Website Postings
<b>Subpart F – WHOLESALE MARKET PARTICIPATION AGREEMENT/NON-JURISDICTIONAL AGREEMENTS</b>	
433	Wholesale Market Participation Agreement/Non-Jurisdictional Agreements
<b>Subpart G – AFFECTED SYSTEM RULES</b>	
434	Affected System Rules
<b>Subpart H – UPGRADE REQUESTS</b>	
435	Upgrade Requests
436 – 499	[Reserved]

**IX. FORMS OF INTERCONNECTION-RELATED AGREEMENTS**

500	Execution Deadlines
<b>Subpart A – FORM OF APPLICATION AND STUDIES AGREEMENT</b>	
<b>Subpart B – FORM OF GENERATION INTERCONNECTION AGREEMENT COMBINED WITH CONSTRUCTION SERVICE AGREEMENT</b>	
<b>Subpart C – FORM OF WHOLESALE MARKET PARTICIPATION AGREEMENT</b>	
<b>Subpart D – FORM OF ENGINEERING AND PROCUREMENT AGREEMENT</b>	
<b>Subpart E – FORM OF UPGRADE CONSTRUCTION SERVICE AGREEMENT</b>	
<b>Subpart F – FORM OF COST RESPONSIBILITY AGREEMENT</b>	
<b>Subpart G – FORM OF NECESSARY STUDIES AGREEMENT</b>	
<b>Subpart H – FORM OF NETWORK UPGRADE COST RESPONSIBILITY AGREEMENT</b>	
<b>Subpart I – FORM OF SURPLUS INTERCONNECTION SERVICE STUDY AGREEMENT</b>	
<b>Subpart J – FORM OF CONSTRUCTION SERVICE AGREEMENT</b>	
<b>Subpart K – FORM OF UPGRADE APPLICATION AND STUDIES AGREEMENT</b>	

**Subpart L – FORM OF AFFECTED SYSTEM CUSTOMER FACILITIES STUDY  
APPLICATION AND AGREEMENT**

**SCHEDULE 1**

**Scheduling, System Control and Dispatch Service**

**SCHEDULE 1A**

**Transmission Owner Scheduling, System Control and Dispatch Service**

**SCHEDULE 2**

**Reactive Supply and Voltage Control from Generation Sources Service**

**SCHEDULE 3**

**Regulation and Frequency Response Service**

**SCHEDULE 4**

**Energy Imbalance Service**

**SCHEDULE 5**

**Operating Reserve – Synchronized Reserve Service**

**SCHEDULE 6**

**Operating Reserve - Supplemental Reserve Service**

**SCHEDULE 6A**

**Black Start Service**

**SCHEDULE 7**

**Long-Term Firm and Short-Term Firm Point-To-Point Transmission Service**

**SCHEDULE 8**

**Non-Firm Point-To-Point Transmission Service**

**SCHEDULE 9**

**PJM Interconnection L.L.C. Administrative Services**

**SCHEDULE 9-1**

**Control Area Administration Service**

**SCHEDULE 9-2**

**Financial Transmission Rights Administration Service**

**SCHEDULE 9-3**

**Market Support Service**

**SCHEDULE 9-4**

**Regulation and Frequency Response Administration Service**

**SCHEDULE 9-5**

**Capacity Resource and Obligation Management Service**

**SCHEDULE 9-6**

**Management Service Cost**

**SCHEDULE 9-FERC**

**FERC Annual Charge Recovery**

**SCHEDULE 9-OPSI**

**OPSI Funding**

**SCHEDULE 9-CAPS**

**CAPS Funding**

**SCHEDULE 9-FINCON**

**Finance Committee Retained Outside Consultant**

**SCHEDULE 9-MMU**

**MMU Funding**  
**SCHEDULE 9 – PJM SETTLEMENT**  
**SCHEDULE 10 - [Reserved]**  
**SCHEDULE 10-NERC**  
**North American Electric Reliability Corporation Charge**  
**SCHEDULE 10-RFC**  
**Reliability First Corporation Charge**  
**SCHEDULE 11**  
**[Reserved for Future Use]**  
**SCHEDULE 11A**  
**Additional Secure Control Center Data Communication Links and Formula Rate**  
**SCHEDULE 12**  
**Transmission Enhancement Charges**  
**SCHEDULE 12 APPENDIX**  
**SCHEDULE 12-A**  
**SCHEDULE 13**  
**Expansion Cost Recovery Change (ECRC)**  
**SCHEDULE 14**  
**Transmission Service on the Neptune Line**  
**SCHEDULE 14 - Exhibit A**  
**SCHEDULE 15**  
**Non-Retail Behind The Meter Generation Maximum Generation Emergency**  
**Obligations**  
**SCHEDULE 16**  
**Transmission Service on the Linden VFT Facility**  
**SCHEDULE 16 Exhibit A**  
**SCHEDULE 16 – A**  
**Transmission Service for Imports on the Linden VFT Facility**  
**SCHEDULE 17**  
**Transmission Service on the Hudson Line**  
**SCHEDULE 17 - Exhibit A**  
**ATTACHMENT A**  
**Form of Service Agreement For Firm Point-To-Point Transmission Service**  
**ATTACHMENT A-1**  
**Form of Service Agreement For The Resale, Reassignment or Transfer of Point-to-**  
**Point Transmission Service**  
**ATTACHMENT B**  
**Form of Service Agreement For Non-Firm Point-To-Point Transmission Service**  
**ATTACHMENT C**  
**Methodology To Assess Available Transfer Capability**  
**ATTACHMENT C-1**  
**Conversion of Service in the Dominion and Duquesne Zones**  
**ATTACHMENT C-2**  
**Conversion of Service in the Duke Energy Ohio, Inc. and Duke Energy Kentucky,**  
**Inc, (“DEOK”) Zone**  
**ATTACHMENT C-4**

	<b>Conversion of Service in the OVEC Zone</b>
<b>ATTACHMENT D</b>	<b>Methodology for Completing a System Impact Study</b>
<b>ATTACHMENT E</b>	<b>Index of Point-To-Point Transmission Service Customers</b>
<b>ATTACHMENT F</b>	<b>Service Agreement For Network Integration Transmission Service</b>
<b>ATTACHMENT F-1</b>	<b>Form of Umbrella Service Agreement for Network Integration Transmission Service Under State Required Retail Access Programs</b>
<b>ATTACHMENT G</b>	<b>Network Operating Agreement</b>
<b>ATTACHMENT H-1</b>	<b>Annual Transmission Rates -- Atlantic City Electric Company for Network Integration Transmission Service</b>
<b>ATTACHMENT H-1A</b>	<b>Atlantic City Electric Company Formula Rate Appendix A</b>
<b>ATTACHMENT H-1B</b>	<b>Atlantic City Electric Company Formula Rate Implementation Protocols</b>
<b>ATTACHMENT H-2</b>	<b>Annual Transmission Rates -- Baltimore Gas and Electric Company for Network Integration Transmission Service</b>
<b>ATTACHMENT H-2A</b>	<b>Baltimore Gas and Electric Company Formula Rate</b>
<b>ATTACHMENT H-2B</b>	<b>Baltimore Gas and Electric Company Formula Rate Implementation Protocols</b>
<b>ATTACHMENT H-3</b>	<b>Annual Transmission Rates -- Delmarva Power &amp; Light Company for Network Integration Transmission Service</b>
<b>ATTACHMENT H-3A</b>	<b>Delmarva Power &amp; Light Company Load Power Factor Charge Applicable to Service the Interconnection Points</b>
<b>ATTACHMENT H-3B</b>	<b>Delmarva Power &amp; Light Company Load Power Factor Charge Applicable to Service the Interconnection Points</b>
<b>ATTACHMENT H-3C</b>	<b>Delmarva Power &amp; Light Company Under-Frequency Load Shedding Charge</b>
<b>ATTACHMENT H-3D</b>	<b>Delmarva Power &amp; Light Company Formula Rate – Appendix A</b>
<b>ATTACHMENT H-3E</b>	<b>Delmarva Power &amp; Light Company Formula Rate Implementation Protocols</b>
<b>ATTACHMENT H-3F</b>	<b>Old Dominion Electric Cooperative Formula Rate – Appendix A</b>
<b>ATTACHMENT H-3G</b>	<b>Old Dominion Electric Cooperative Formula Rate Implementation Protocols</b>
<b>ATTACHMENT H-4</b>	

**Annual Transmission Rates -- Jersey Central Power & Light Company for Network Integration Transmission Service**  
**ATTACHMENT H-4A**  
**Other Supporting Facilities - Jersey Central Power & Light Company**  
**ATTACHMENT H-4B**  
**Jersey Central Power & Light Company – [Reserved]**  
**ATTACHMENT H-5**  
**Annual Transmission Rates -- Metropolitan Edison Company for Network Integration Transmission Service**  
**ATTACHMENT H-5A**  
**Other Supporting Facilities -- Metropolitan Edison Company**  
**ATTACHMENT H-6**  
**Annual Transmission Rates -- Pennsylvania Electric Company for Network Integration Transmission Service**  
**ATTACHMENT H-6A**  
**Other Supporting Facilities Charges -- Pennsylvania Electric Company**  
**ATTACHMENT H-7**  
**Annual Transmission Rates -- PECO Energy Company for Network Integration Transmission Service**  
**ATTACHMENT H-7A**  
**PECO Energy Company Formula Rate Template**  
**ATTACHMENT H-7B**  
**PECO Energy Company Monthly Deferred Tax Adjustment Charge**  
**ATTACHMENT H-7C**  
**PECO Energy Company Formula Rate Implementation Protocols**  
**ATTACHMENT H-8**  
**Annual Transmission Rates – PPL Group for Network Integration Transmission Service**  
**ATTACHMENT H-8A**  
**Other Supporting Facilities Charges -- PPL Electric Utilities Corporation**  
**ATTACHMENT 8C**  
**UGI Utilities, Inc. Formula Rate – Appendix A**  
**ATTACHMENT 8D**  
**UGI Utilities, Inc. Formula Rate Implementation Protocols**  
**ATTACHMENT 8E**  
**UGI Utilities, Inc. Formula Rate – Appendix A**  
**ATTACHMENT H-8G**  
**Annual Transmission Rates – PPL Electric Utilities Corp.**  
**ATTACHMENT H-8H**  
**Formula Rate Implementation Protocols – PPL Electric Utilities Corp.**  
**ATTACHMENT H-9**  
**Annual Transmission Rates -- Potomac Electric Power Company for Network Integration Transmission Service**  
**ATTACHMENT H-9A**  
**Potomac Electric Power Company Formula Rate – Appendix A**  
**ATTACHMENT H-9B**

**Potomac Electric Power Company Formula Rate Implementation Protocols**  
**ATTACHMENT H-9C**  
**Annual Transmission Rate – Southern Maryland Electric Cooperative, Inc. for Network Integration Transmission Service**

**ATTACHMENT H-10**  
**Annual Transmission Rates -- Public Service Electric and Gas Company for Network Integration Transmission Service**

**ATTACHMENT H-10A**  
**Formula Rate -- Public Service Electric and Gas Company**

**ATTACHMENT H-10B**  
**Formula Rate Implementation Protocols – Public Service Electric and Gas Company**

**ATTACHMENT H-11**  
**Annual Transmission Rates -- Allegheny Power for Network Integration Transmission Service**

**ATTACHMENT 11A**  
**Other Supporting Facilities Charges - Allegheny Power**

**ATTACHMENT H-12**  
**Annual Transmission Rates -- Rockland Electric Company for Network Integration Transmission Service**

**ATTACHMENT H-13**  
**Annual Transmission Rates – Commonwealth Edison Company for Network Integration Transmission Service**

**ATTACHMENT H-13A**  
**Commonwealth Edison Company Formula Rate – Appendix A**

**ATTACHMENT H-13B**  
**Commonwealth Edison Company Formula Rate Implementation Protocols**

**ATTACHMENT H-14**  
**Annual Transmission Rates – AEP East Operating Companies for Network Integration Transmission Service**

**ATTACHMENT H-14A**  
**AEP East Operating Companies Formula Rate Implementation Protocols**

**ATTACHMENT H-14B Part 1**

**ATTACHMENT H-14B Part 2**

**ATTACHMENT H-15**  
**Annual Transmission Rates -- The Dayton Power and Light Company for Network Integration Transmission Service**

**ATTACHMENT H-16**  
**Annual Transmission Rates -- Virginia Electric and Power Company for Network Integration Transmission Service**

**ATTACHMENT H-16A**  
**Formula Rate - Virginia Electric and Power Company**

**ATTACHMENT H-16B**  
**Formula Rate Implementation Protocols - Virginia Electric and Power Company**

**ATTACHMENT H-16C**  
**Virginia Retail Administrative Fee Credit for Virginia Retail Load Serving**

**Entities in the Dominion Zone**  
**ATTACHMENT H-16D – [Reserved]**  
**ATTACHMENT H-16E – [Reserved]**  
**ATTACHMENT H-16AA**  
**Virginia Electric and Power Company**  
**ATTACHMENT H-17**  
**Annual Transmission Rates -- Duquesne Light Company for Network Integration**  
**Transmission Service**  
**ATTACHMENT H-17A**  
**Duquesne Light Company Formula Rate – Appendix A**  
**ATTACHMENT H-17B**  
**Duquesne Light Company Formula Rate Implementation Protocols**  
**ATTACHMENT H-17C**  
**Duquesne Light Company Monthly Deferred Tax Adjustment Charge**  
**ATTACHMENT H-18**  
**Annual Transmission Rates – Trans-Allegheny Interstate Line Company**  
**ATTACHMENT H-18A**  
**Trans-Allegheny Interstate Line Company Formula Rate – Appendix A**  
**ATTACHMENT H-18B**  
**Trans-Allegheny Interstate Line Company Formula Rate Implementation Protocols**  
**ATTACHMENT H-19**  
**Annual Transmission Rates – Potomac-Appalachian Transmission Highline, L.L.C.**  
**ATTACHMENT H-19A**  
**Potomac-Appalachian Transmission Highline, L.L.C. Summary**  
**ATTACHMENT H-19B**  
**Potomac-Appalachian Transmission Highline, L.L.C. Formula Rate**  
**Implementation Protocols**  
**ATTACHMENT H-20**  
**Annual Transmission Rates – AEP Transmission Companies (AEPTCo) in the AEP**  
**Zone**  
**ATTACHMENT H-20A**  
**AEP Transmission Companies (AEPTCo) in the AEP Zone - Formula Rate**  
**Implementation Protocols**  
**ATTACHMENT H-20A APPENDIX A**  
**Transmission Formula Rate Settlement for AEPTCo**  
**ATTACHMENT H-20B - Part I**  
**AEP Transmission Companies (AEPTCo) in the AEP Zone – Blank Formula Rate**  
**Template**  
**ATTACHMENT H-20B - Part II**  
**AEP Transmission Companies (AEPTCo) in the AEP Zone – Blank Formula Rate**  
**Template**  
**ATTACHMENT H-21**  
**Annual Transmission Rates – American Transmission Systems, Inc. for Network**  
**Integration Transmission Service**  
**ATTACHMENT H-21A - ATSI**  
**ATTACHMENT H-21A Appendix A - ATSI**

**ATTACHMENT H-21A Appendix B - ATSI**  
**ATTACHMENT H-21A Appendix C - ATSI**  
**ATTACHMENT H-21A Appendix C - ATSI [Reserved]**  
**ATTACHMENT H-21A Appendix D – ATSI**  
**ATTACHMENT H-21A Appendix E - ATSI**  
**ATTACHMENT H-21A Appendix F – ATSI [Reserved]**  
**ATTACHMENT H-21A Appendix G - ATSI**  
**ATTACHMENT H-21A Appendix G – ATSI (Credit Adj)**  
**ATTACHMENT H-21B ATSI Protocol**  
**ATTACHMENT H-22**  
**Annual Transmission Rates – DEOK for Network Integration Transmission Service and Point-to-Point Transmission Service**  
**ATTACHMENT H-22A**  
**Duke Energy Ohio and Duke Energy Kentucky (DEOK) Formula Rate Template**  
**ATTACHMENT H-22B**  
**DEOK Formula Rate Implementation Protocols**  
**ATTACHMENT H-22C**  
**Additional provisions re DEOK and Indiana**  
**ATTACHMENT H-23**  
**EP Rock springs annual transmission Rate**  
**ATTACHMENT H-24**  
**EKPC Annual Transmission Rates**  
**ATTACHMENT H-24A APPENDIX A**  
**EKPC Schedule 1A**  
**ATTACHMENT H-24A APPENDIX B**  
**EKPC RTEP**  
**ATTACHMENT H-24A APPENDIX C**  
**EKPC True-up**  
**ATTACHMENT H-24A APPENDIX D**  
**EKPC Depreciation Rates**  
**ATTACHMENT H-24-B**  
**EKPC Implementation Protocols**  
**ATTACHMENT H-25 - [Reserved]**  
**ATTACHMENT H-25A - [Reserved]**  
**ATTACHMENT H-25B - [Reserved]**  
**ATTACHMENT H-26**  
**Transource West Virginia, LLC Formula Rate Template**  
**ATTACHMENT H-26A**  
**Transource West Virginia, LLC Formula Rate Implementation Protocols**  
**ATTACHMENT H-27**  
**Annual Transmission Rates – Silver Run Electric, LLC**  
**ATTACHMENT H-27A**  
**Silver Run Electric, LLC Formula Rate Template**  
**ATTACHMENT H-27B**  
**Silver Run Electric, LLC Formula Rate Implementation Protocols**  
**ATTACHMENT H-28**

**Annual Transmission Rates – Mid-Atlantic Interstate Transmission, LLC for Network Integration Transmission Service**  
**ATTACHMENT H-28A**  
**Mid-Atlantic Interstate Transmission, LLC Formula Rate Template**  
**ATTACHMENT H-28B**  
**Mid-Atlantic Interstate Transmission, LLC Formula Rate Implementation Protocols**  
**ATTACHMENT H-29**  
**Annual Transmission Rates – Transource Pennsylvania, LLC**  
**ATTACHMENT H-29A**  
**Transource Pennsylvania, LLC Formula Rate Template**  
**ATTACHMENT H-29B**  
**Transource Pennsylvania, LLC Formula Rate Implementation Protocols**  
**ATTACHMENT H-30**  
**Annual Transmission Rates – Transource Maryland, LLC**  
**ATTACHMENT H-30A**  
**Transource Maryland, LLC Formula Rate Template**  
**ATTACHMENT H-30B**  
**Transource Maryland, LLC Formula Rate Implementation Protocols**  
**ATTACHMENT H-31**  
**Annual Transmission Revenue Requirement – Ohio Valley Electric Corporation for Network Integration Transmission Service**  
**ATTACHMENT H-32**  
**Annual Transmission Revenue Requirements and Rates - AMP Transmission, LLC**  
**ATTACHMENT H-32A**  
**AMP Transmission, LLC - Formula Rate Template**  
**ATTACHMENT H-32B**  
**AMP Transmission, LLC - Formula Rate Implementation Protocols**  
**ATTACHMENT H-32C**  
**Annual Transmission Revenue Requirement and Rates - AMP Transmission, LLC for Network Integration Transmission Service**  
**ATTACHMENT H-33**  
**Annual Transmission Rates – NextEra Energy Transmission MidAtlantic Indiana, Inc.**  
**ATTACHMENT H-33A**  
**NextEra Energy Transmission MidAtlantic Indiana, Inc. Formula Rate Implementation Protocols**  
**ATTACHMENT H-33B**  
**NextEra Energy Transmission MidAtlantic Indiana, Inc. Formula Rate Template**  
**ATTACHMENT H-A**  
**Annual Transmission Rates -- Non-Zone Network Load for Network Integration Transmission Service**  
**ATTACHMENT I**  
**Index of Network Integration Transmission Service Customers**  
**ATTACHMENT J**  
**PJM Transmission Zones**

## **ATTACHMENT K**

### **Transmission Congestion Charges and Credits**

#### **Preface**

## **ATTACHMENT K -- APPENDIX**

#### **Preface**

### **1. MARKET OPERATIONS**

- 1.1 Introduction
- 1.2 Cost-Based Offers
- 1.2A Transmission Losses
- 1.3 [Reserved for Future Use]
- 1.4 Market Buyers
- 1.5 Market Sellers
- 1.5A Economic Load Response Participant
- 1.6 Office of the Interconnection
- 1.6A PJM Settlement
- 1.7 General
- 1.8 Selection, Scheduling and Dispatch Procedure Adjustment Process
- 1.9 Prescheduling
- 1.10 Scheduling
- 1.11 Dispatch
- 1.12 Dynamic Transfers

### **2. CALCULATION OF LOCATIONAL MARGINAL PRICES**

- 2.1 Introduction
- 2.2 General
- 2.3 Determination of System Conditions Using the State Estimator
- 2.4 Determination of Energy Offers Used in Calculating
- 2.5 Calculation of Real-time Prices
- 2.6 Calculation of Day-ahead Prices
- 2.6A Interface Prices
- 2.7 Performance Evaluation

### **3. ACCOUNTING AND BILLING**

- 3.1 Introduction
- 3.2 Market Buyers
- 3.3 Market Sellers
  - 3.3A Economic Load Response Participants
- 3.4 Transmission Customers
- 3.5 Other Control Areas
- 3.6 Metering Reconciliation
- 3.7 Inadvertent Interchange
- 3.8 Market-to-Market Coordination

### **4. [Reserved For Future Use]**

### **5. CALCULATION OF CHARGES AND CREDITS FOR TRANSMISSION CONGESTION AND LOSSES**

- 5.1 Transmission Congestion Charge Calculation
- 5.2 Transmission Congestion Credit Calculation
- 5.3 Unscheduled Transmission Service (Loop Flow)
- 5.4 Transmission Loss Charge Calculation

- 5.5 Distribution of Total Transmission Loss Charges
- 5.6 Transmission Constraint Penalty Factors
- 6. “MUST-RUN” FOR RELIABILITY GENERATION**
  - 6.1 Introduction
  - 6.2 Identification of Facility Outages
  - 6.3 Dispatch for Local Reliability
  - 6.4 Offer Price Caps
  - 6.5 [Reserved]
  - 6.6 Minimum Generator Operating Parameters –  
Parameter-Limited Schedules
- 6A. [Reserved]**
  - 6A.1 [Reserved]
  - 6A.2 [Reserved]
  - 6A.3 [Reserved]
- 7. FINANCIAL TRANSMISSION RIGHTS AUCTIONS**
  - 7.1 Auctions of Financial Transmission Rights
  - 7.1A Long-Term Financial Transmission Rights Auctions
  - 7.2 Financial Transmission Rights Characteristics
  - 7.3 Auction Procedures
  - 7.4 Allocation of Auction Revenues
  - 7.5 Simultaneous Feasibility
  - 7.6 New Stage 1 Resources
  - 7.7 Alternate Stage 1 Resources
  - 7.8 Elective Upgrade Auction Revenue Rights
  - 7.9 Residual Auction Revenue Rights
  - 7.10 Financial Settlement
  - 7.11 PJMSettlement as Counterparty
- 8. EMERGENCY AND PRE-EMERGENCY LOAD RESPONSE PROGRAM**
  - 8.1 Emergency Load Response and Pre-Emergency Load Response Program Options
  - 8.2 Participant Qualifications
  - 8.3 Metering Requirements
  - 8.4 Registration
  - 8.5 Pre-Emergency Operations
  - 8.6 Emergency Operations
  - 8.7 Verification
  - 8.8 Market Settlements
  - 8.9 Reporting and Compliance
  - 8.10 Non-Hourly Metered Customer Pilot
  - 8.11 Emergency Load Response and Pre-Emergency Load Response Participant  
Aggregation

**ATTACHMENT L**

**List of Transmission Owners**

**ATTACHMENT M**

**PJM Market Monitoring Plan**

**ATTACHMENT M – APPENDIX**

**PJM Market Monitor Plan Attachment M Appendix**

- I Confidentiality of Data and Information
- II Development of Inputs for Prospective Mitigation
- III Black Start Service
- IV Deactivation Rates
- V Opportunity Cost Calculation
- VI FTR Forfeiture Rule
- VII Forced Outage Rule
- VIII Data Collection and Verification

**ATTACHMENT M-1 (FirstEnergy)**

**Energy Procedure Manual for Determining Supplier Total Hourly Energy Obligation**

**ATTACHMENT M-2 (First Energy)**

**Energy Procedure Manual for Determining Supplier Peak Load Share Procedures for Load Determination**

**ATTACHMENT M-2 (ComEd)**

**Determination of Capacity Peak Load Contributions and Network Service Peak Load Contributions**

**ATTACHMENT M-2 (PSE&G)**

**Procedures for Determination of Peak Load Contributions and Hourly Load Obligations for Retail Customers**

**ATTACHMENT M-2 (Atlantic City Electric Company)**

**Procedures for Determination of Peak Load Contributions and Hourly Load Obligations for Retail Customers**

**ATTACHMENT M-2 (Delmarva Power & Light Company)**

**Procedures for Determination of Peak Load Contributions and Hourly Load Obligations for Retail Customers**

**ATTACHMENT M-2 (Delmarva Power & Light Company)**

**Procedures for Determination of Peak Load Contributions and Hourly Load Obligations for Retail Customers**

**ATTACHMENT M-2 (Duke Energy Ohio, Inc.)**

**Procedures for Determination of Peak Load Contributions, Network Service Peak Load and Hourly Load Obligations for Retail Customers**

**ATTACHMENT M-3**

**Additional Procedures for Planning of Supplemental Projects**

**ATTACHMENT N**

**Form of Generation Interconnection Feasibility Study Agreement**

**ATTACHMENT N-1**

**Form of System Impact Study Agreement**

**ATTACHMENT N-2**

**Form of Facilities Study Agreement**

**ATTACHMENT N-3**

**Form of Optional Interconnection Study Agreement**

**ATTACHMENT O**

**Form of Interconnection Service Agreement**

- 1.0 Parties
- 2.0 Authority

- 3.0 Customer Facility Specifications
- 4.0 Effective Date
- 5.0 Security
- 6.0 Project Specific Milestones
- 7.0 Provision of Interconnection Service
- 8.0 Assumption of Tariff Obligations
- 9.0 Facilities Study
- 10.0 Construction of Transmission Owner Interconnection Facilities
- 11.0 Interconnection Specifications
- 12.0 Power Factor Requirement
- 12.0A RTU
- 13.0 Charges
- 14.0 Third Party Benefits
- 15.0 Waiver
- 16.0 Amendment
- 17.0 Construction With Other Parts Of The Tariff
- 18.0 Notices
- 19.0 Incorporation Of Other Documents
- 20.0 Addendum of Non-Standard Terms and Conditions for Interconnection Service
- 21.0 Addendum of Interconnection Customer’s Agreement  
to Conform with IRS Safe Harbor Provisions for Non-Taxable Status
- 22.0 Addendum of Interconnection Requirements for a Wind Generation Facility
- 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 O-1**

**Form of Interim Interconnection Service Agreement**

**ATTACHMENT O-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
<b>21</b>		<b>Miscellaneous</b>
	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
<b>22</b>		<b>Representations and Warranties</b>
	22.1	General
<b>ATTACHMENT P - SCHEDULE A</b>		
		<b>Site Plan</b>
<b>ATTACHMENT P - SCHEDULE B</b>		
		<b>Single-Line Diagram of Interconnection Facilities</b>
<b>ATTACHMENT P - SCHEDULE C</b>		
		<b>Transmission Owner Interconnection Facilities to be Built by Interconnected Transmission Owner</b>
<b>ATTACHMENT P - SCHEDULE D</b>		
		<b>Transmission Owner Interconnection Facilities to be Built by Interconnection Customer Pursuant to Option to Build</b>
<b>ATTACHMENT P - SCHEDULE E</b>		
		<b>Merchant Network Upgrades to be Built by Interconnected Transmission Owner</b>
<b>ATTACHMENT P - SCHEDULE F</b>		
		<b>Merchant Network Upgrades to be Built by Interconnection Customer Pursuant to Option to Build</b>
<b>ATTACHMENT P - SCHEDULE G</b>		
		<b>Customer Interconnection Facilities</b>
<b>ATTACHMENT P - SCHEDULE H</b>		
		<b>Negotiated Contract Option Terms</b>
<b>ATTACHMENT P - SCHEDULE I</b>		
		<b>Scope of Work</b>
<b>ATTACHMENT P - SCHEDULE J</b>		
		<b>Schedule of Work</b>
<b>ATTACHMENT P - SCHEDULE K</b>		
		<b>Applicable Technical Requirements and Standards</b>
<b>ATTACHMENT P - SCHEDULE L</b>		
		<b>Interconnection Customer's Agreement to Confirm with IRS Safe Harbor Provisions For Non-Taxable Status</b>
<b>ATTACHMENT P - SCHEDULE M</b>		
		<b>Schedule of Non-Standard Terms and Conditions</b>
<b>ATTACHMENT P - SCHEDULE N</b>		
		<b>Interconnection Requirements for a Wind Generation Facility</b>
<b>ATTACHMENT Q</b>		
		<b>PJM Credit Policy</b>
<b>ATTACHMENT R</b>		

	<b>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</b>
<b>ATTACHMENT S</b>	<b>Form of Transmission Interconnection Feasibility Study Agreement</b>
<b>ATTACHMENT T</b>	<b>Identification of Merchant Transmission Facilities</b>
<b>ATTACHMENT U</b>	<b>Independent Transmission Companies</b>
<b>ATTACHMENT V</b>	<b>Form of ITC Agreement</b>
<b>ATTACHMENT W</b>	<b>COMMONWEALTH EDISON COMPANY</b>
<b>ATTACHMENT X</b>	<b>Seams Elimination Cost Assignment Charges</b>
	<b>NOTICE OF ADOPTION OF NERC TRANSMISSION LOADING RELIEF PROCEDURES</b>
	<b>NOTICE OF ADOPTION OF LOCAL TRANSMISSION LOADING RELIEF PROCEDURES</b>
	<b>SCHEDULE OF PARTIES ADOPTING LOCAL TRANSMISSION LOADING RELIEF PROCEDURES</b>
<b>ATTACHMENT Y</b>	<b>Forms of Screens Process Interconnection Request (For Generation Facilities of 2 MW or less)</b>
<b>ATTACHMENT Z</b>	<b>Certification Codes and Standards</b>
<b>ATTACHMENT AA</b>	<b>Certification of Small Generator Equipment Packages</b>
<b>ATTACHMENT BB</b>	<b>Form of Certified Inverter-Based Generating Facility No Larger Than 10 kW Interconnection Service Agreement</b>
<b>ATTACHMENT CC</b>	<b>Form of Certificate of Completion (Small Generating Inverter Facility No Larger Than 10 kW)</b>
<b>ATTACHMENT DD</b>	<b>Reliability Pricing Model</b>
<b>ATTACHMENT EE</b>	<b>Form of Upgrade Request</b>
<b>ATTACHMENT FF</b>	<b>[Reserved]</b>
<b>ATTACHMENT GG</b>	<b>Form of Upgrade Construction Service Agreement</b>
	<b>Article 1 – Definitions And Other Documents</b>
	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**

**ATTACHMENT GG - APPENDIX II - DEFINITIONS**

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

**ATTACHMENT GG - APPENDIX III – GENERAL TERMS AND CONDITIONS**

- 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**