## Subpart A

# Form of Application and Studies Agreement

l.	is entered into by and be "Applicant") and PJM (individually a "Party" a Open Access Transmiss in this Application, unle	Interconnection, L.L.C. ("T nd together the "Parties") pursion Tariff ("Tariff"), Part VIII	oper or Eligible Customer, hereafter ransmission Provider" or "PJM") uant to PJM Interconnection, L.L.C., Subpart B. Capitalized terms used have the meanings ascribed to them
2.	Provider through the P. identified below, which forth in Tariff, Part VIII.	JM website or OASIS, as applied the subject to validation of	ctronically provide to Transmission plicable, all applicable information during the Application Phase as set M Manuals. Only valid New Service
3.	submitting a complete Applicant must electron Deadline the (i) required Deposit by wire transfer must specify the Application Deposit correspond, or 2	d and signed Application proceedings of the control	ess the Application, in addition to rior to the Application Deadline, in Provider prior to the Application transfer and (ii) required Readiness wire transfer(s) or letter(s) of credit ch the Study Deposit and Readiness review or process the Application.
1.	designated an agent, inc  Applicant  Company Name:	ne number, and e-mail addre lude the agent's contact inform	ess of Applicant. If Applicant has nation.
	Address:	<u> </u>	
	City:	State:	Zip:
	Phone:	Email:	
	Applicant's Agent (if ap	pplicable)	
	Address:		
	City:	State:	Zip:
	Phone:	Email:	
	Agent's contact person:		

- 5. An Internal Revenue Service Form W-9 or comparable state-issued document for Applicant.
- 6. Documentation proving the existence of a legally binding relationship between Applicant and any entity with a vested interest in this Application and associated project (e.g., a parent company, a subsidiary, or financing company acting as agent for Applicant). Such documentation may include, but is not limited to, Applicant's Articles of Organization and Operating Agreement describing the nature of the legally binding relationship.
- 7. Applicant's banking information, or the banking information of any entity with a legally binding relationship to Applicant that wishes to make payments and receive refunds on behalf of Applicant, in association with this Application and corresponding project:

Bank Name:	
Account Holder Name:	
ABA number:	
Account Number:	
Company:	
Tax Reporting Name:	
Tax ID:	
Address:	
City:	
State:	
Zip:	
Phone:	
Email:	

- 8. If the Application is a request for long-term firm transmission service, see section 3.
- 9. Location of the proposed Point of Interconnection (POI) to the Transmission System, including the substation name or the name of the line to be tapped (including the voltage), the estimated distance from the substation endpoints of a line tap, address, and GPS coordinates.

POI substation name:		or		
POI line name:	(	endpoint 1) to	(end	point 2)
POI Distance from endpo	oint 1:r	niles		
POI Distance from endpo	oint 2:r	niles		
Interconnection voltage:	kV			
Address:				
City:	State:	Zip Code:		
GPS Coordinates:	<u> </u>	1	W	

10. If the project is a Merchant Transmission Facility, see section 4.

#### **SECTION 2: GENERATING FACILITY SPECIFICATIONS**

11.	Specify the nature of the Generating Facility project.
	New Generating Facility
	Increase in generation capability of an existing Generating Facility
	Replacement of existing Generating Facility with no increase in generation capability
12.	Specify the type of Interconnection Service requested for the Generating Facility.
	Energy Resource only
	Capacity Resource (includes Energy Resource) with Capacity Interconnection
	Rights
13.	Provide the following information about the Generating Facility:
	a. Generating Facility location and site plan:
	Provide a physical address or equivalent written description of the location of the

Provide a physical address or equivalent written description of the location of the Generating Facility, as well as global positioning system (GPS) coordinates. When known, provide GPS coordinates for the location of the Generating Facility's main power transformer(s).

Provide a current site plan in PDF depicting the (1) property boundaries; (2) Generating Facility layout, including the Generating Facility's collector substation (if applicable) or interconnection switchyard (if required); and (3) Interconnection Facilities extending from the Generating Facility's main power transformer(s) to the proposed POI.

b. Generating Facility Site Control:

In accordance with Tariff, Part VIII, Subpart A.3, provide evidence of an ownership interest in, or right to acquire or control through a deed, lease, or option for at least a one-year term beginning from the Application Deadline, 100% of the Generating Facility site, including the location of the high-voltage side of the Generating Facility's main power transformer(s). In addition, provide a certification, executed by an officer or authorized representative of Applicant, verifying that the site control requirement is met. Further at PJM's request, Applicant shall provide copies of landowner attestations or county recordings.

c. Will the Generating Facility physically connect to distribution or sub-transmission facilities currently not subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC), for the purpose of injecting energy at the POI and engaging

in FERC-jurisdictional Wholesale Transactions, as described in Tariff, Part VIII, Subpart F? (Y/N)

If yes, if available, provide with this Application a copy of the executed interconnection agreement between Applicant and the owner of the distribution or sub-transmission facilities to which the Generating Facility will physically connect. If the two-party interconnection agreement is not yet available, provide any available documentation demonstrating that Applicant has requested or applied for interconnection through the relevant non-jurisdictional process, and provide a status report.

d. For the Generating Facility, has Applicant obtained, or does Applicant intend to obtain, Qualifying Facility status under the Public Utility Regulatory Policies Act? (Y/N)

If yes, provide evidence of Qualifying Facility status or eligibility. Further, verify that Applicant intends that the Qualifying Facility will engage in Wholesale Transactions in PJM's FERC-jurisdictional wholesale markets (Y/N).

e. Will the Generating Facility share Project Developer's Interconnection Facilities with another Generating Facility, either existing or planned? (Y/N)

If yes, demonstrate that the relevant parties have entered into, or will enter into, a shared facilities agreement with respect to the shared Interconnection Facilities.

- f. Maximum Facility Output and Capacity Interconnection Rights:
  - i. For a new Generating Facility, provide the following information:

Total Requested Maximum Facility Output	
(maximum injection at the POI), in Megawatts	
Total Requested Capacity Interconnection	
Rights, in Megawatts	

ii. For a requested increase in generation capability of an existing Generating Facility, identify the Generating Facility and provide the following information:

	Existing	Requested Increase	Total
Maximum Facility Output (maximum injection at the POI), in Megawatts			

Rights, in Megawatts			
iii. For a ne informati		r Generating Facility, pr	ovide the following
Gross Output in Megawatts			
Behind the Meter Load in Me of auxiliary load and any oth served behind the meter)	`		
Total Requested Maximum Fa (maximum injection at the PO)	* * *		
Total Requested Capacity In Rights, in Megawatts	terconnection		
Meter Ge		eneration capability of an entify the Generating Fac	_

	Existing	Increase	Total
Gross Output in			
Megawatts			
Behind the Meter Load in			
Megawatts (the sum of			
auxiliary load and any			
other load to be served			
behind the meter)			
Maximum Facility Output			
(maximum injection at the			
POI), in Megawatts			
Capacity Interconnection			
Rights, in Megawatts			

- g. Provide a description of the equipment configuration and electrical design specifications for the Generating Facility, as further defined in the PJM Manuals and reflected in the single-line diagram.
- h. Specify the fuel type of the Generating Facility.
- i. If the Generating Facility will be a multi-fuel Generating Facility, or if a proposed increase in generation capability of an existing Generating Facility will create a multi-fuel Generating Facility, describe the physical and electrical configuration in as much detail as possible.
- j. If the Generating Facility will include storage device(s), will the storage device(s) be charged using energy from the Transmission System at any time? (Y/N)

If yes, specify the maximum that will be withdrawn from the Transmission System at any time: \_\_\_ MWh (or kWh)

If yes, provide other technical and operating information on the storage device(s) as set forth in the PJM Manuals, including MWh stockpile and hour class, as applicable.

k. If the Generating Facility will include storage, provide the primary frequency response operating range for the electric storage component, as described in the PJM Manuals.

Minimum State of Charge:	Maximum State of Charge:
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- 1. For a Behind the Meter Generating Facility, provide the following information (note that all of the provisions in Tariff, Part VIII, Subpart E, section 4 apply):
  - i. Identify the type and size of the load co-located (or to be co-located) with the Generating Facility, and attach a detailed single-line diagram in PDF depicting the electrical location of the load in relation to the Generating Facility.
  - ii. Describe the electrical connections between the Generating Facility and the co-located load, as shown in the single-line diagram.
- m. Provide the date that the new Generating Facility, or the increase in generation capability of an existing Generating Facility, will be in service.
- n. Provide other relevant information for the Generating Facility including, but not limited to, identifying whether Applicant has submitted a previous Application; and, if this Application proposes an increase in generation capability of a Generating Facility, identify whether the Generating Facility is subject to an

existing PJM Service Agreement; and, if so, provide those details.

#### **SECTION 3: LONG-TERM FIRM TRANSMISSION SERVICE**

## 14. Request:

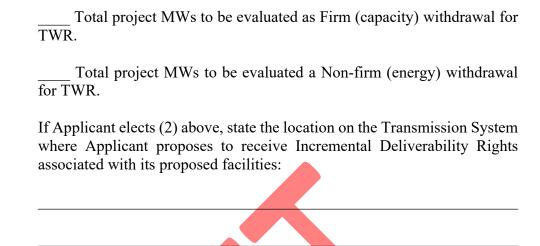
OASIS	Start	Stop	Amount	Path	Date &	
Request					Time	
_					Request	

- 15. PURPOSE: A Phase I System Impact Study, incorporated within a Cycle's System Impact Studies, is used to determine whether the Transmission System is adequate to accommodate all or part of an Applicant's request for long-term firm transmission service under Tariff, Part II (POINT-TO-POINT TRANSMISSION SERVICE) and Tariff, Part III (NETWORK INTEGRATION TRANSMISSION SERVICE). The FERC comparability standard is applied in evaluating the impact of all requests.
- 16. SCOPE OF WORK AND STUDY DEPOSIT: PJM will perform a Phase I System Impact Study to determine if the PJM network has sufficient capability to grant Applicant's request for long-term firm transmission service, based on expected system conditions and topology. The required cash Study Deposit for the Phase I System Impact Study, as described in Tariff, Part VIII, Subpart B, section 5(a), is due prior to the Application Deadline.
- 17. NETWORK ANALYSIS AND DELIVERABILITY TEST: PJM evaluates requests for long-term firm transmission service using deliverability tests commensurate with the testing employed for evaluating Interconnection Requests. The energy from a Generating Facility or the energy delivered using long-term firm transmission service that is ultimately committed to meet resource requirements must be deliverable to where it is needed in the event of a system emergency. Therefore, there must be sufficient transmission network transfer capability within the control area. PJM determines the sufficiency of network transfer capability through a series of "deliverability tests." All Interconnection Requests and long-term firm transmission service requests in PJM are subjected to the same deliverability tests. The FERC comparability standard is applied in evaluating the impact of all requests.
- 18. Skip to section 5.

#### SECTION 4: MERCHANT TRANSMISSION FACILITY SPECIFICATIONS

19. Applicant requests interconnection to the Transmission System of Merchant Transmission Facilities with the following specifications:

a. Location of prop	oosed facilities:
b. Substation(s) wl	nere Applicant proposes to interconnect or add its facilities:
c. Proposed voltagexisting facilities:	ge and nominal capability of new facilities or increase in capability o
d. Description of p	roposed facilities and equipment:
e. Planned date the	proposed facilities or increase in capability will be in service:
or Controllable A.  A.C.  i. If the pro-	d facilities be Merchant A.C. or Merchant D.C. Transmission Facilities C. Merchant Transmission Facilities?  or D.C or Controllable A.C  oposed facilities will be Merchant D.C. Transmission Facilities and/or e A.C. Merchant Transmission Facilities, does Applicant elect there:
OR	<ul> <li>(1) Firm or Non-Firm Transmission Injection Rights (TIR) and/or Firm or Non-Firm Transmission Withdrawal Rights (TWR)</li> <li>(2) Incremental Deliverability Rights, Incremental Auction Revenue Rights, and Incremental Available Transfer Capability Revenue Rights.</li> </ul>
If A	pplicant elects (1) above, provide the following:
TIR	_ Total project MWs to be evaluated as Firm (capacity) injection fo
TIR	_ Total project MWs to be evaluated as Non-firm (energy) injection fo



- ii. If the proposed facilities will be Controllable A.C. Merchant Transmission Facilities, and provided that Applicant contractually binds itself in the Service Agreement related to its project always to operate its Controllable A.C. Merchant Transmission Facilities in a manner effectively the same as operation of D.C. transmission facilities, the Service Agreement will provide Applicant with the same types of transmission rights that are available under the Tariff for Merchant D.C. Transmission Facilities. For purposes of this Agreement, Applicant represents that, should it execute a Service Agreement for its project described herein, it will agree in the Service Agreement to operate its facilities continuously in a controllable mode.
- iii. If the proposed facilities will be Merchant A.C. Transmission Facilities without continuous controllability as described in the preceding paragraph, specify the location on the Transmission System where Applicant proposes to receive any Incremental Deliverability Rights associated with its proposed facilities:
- 20. Site Control: In accordance with Tariff, Part VIII, Subpart A.3, provide evidence of an ownership interest in, or right to acquire or control through a deed, lease, or option for at least a one-year term beginning from the Application Deadline, 100% of the site for Applicant's major equipment (e.g., converter station). In addition, provide a certification, executed by an officer or authorized representative of Applicant, verifying that the site control requirement is met. Further at PJM's request, Applicant shall provide copies of landowner attestations or county recordings.

#### **SECTION 5: SCOPE AND TIMING OF SYSTEM IMPACT STUDIES**

21. Transmission Provider, in consultation with the affected Transmission Owner(s), will conduct System Impact Studies, in three phases, to provide Applicant with information on the required Interconnection Facilities and Network Upgrades needed to support Applicant's New Service Request.

- 22. Consistent with Tariff, Part VIII, Subparts C and D, the Phase I System Impact Study begins at the end of the 90-day Application Review Phase, and runs for 120 days followed by a 30-day Decision Point I period for withdrawal or modification. If no withdrawal, the Phase II System Impact Study begins at the end of the Decision Point 1 period and runs for 180 days followed by a 30-day Decision Point II period for withdrawal or modification. If no withdrawal, the Phase III System Impact Study begins at the end of the Decision Point II period and runs for 180 days followed by release of the Phase III System Impact Study report and the start of final agreement negotiations. If a phase or period does not end on a Business Day, the phase or period shall be extended to end on the next Business Day.
- 23. The System Impact Studies include good faith estimates that attempt to determine the cost of necessary facilities, and upgrades to existing facilities, to accommodate Applicant's New Service Request, and to identify Applicant's cost responsibility, but those estimates shall not be deemed final or binding. The scope of the System Impact Studies may include, but are not limited to, short circuit analyses, stability analyses, an interconnection facilities study, and a system upgrades facilities study.
- 24. The System Impact Studies necessarily will employ various assumptions regarding Applicant's New Service Request, other New Service Requests, and PJM's Regional Transmission Expansion Plan at the time of study. IN NO EVENT SHALL THIS AGREEMENT OR THE SYSTEM IMPACT STUDIES IN ANY WAY BE DEEMED TO OBLIGATE TRANSMISSION PROVIDER OR TRANSMISSION OWNERS TO CONSTRUCT ANY FACILITIES OR UPGRADES OR TO PROVIDE ANY TRANSMISSION OR INTERCONNECTION SERVICE TO OR ON BEHALF OF APPLICANT EITHER AT THIS POINT IN TIME OR IN THE FUTURE.
- 25. Consistent with Tariff, Part VIII, Subpart G, Transmission Provider will coordinate with Affected System Operators the conduct of studies required to determine the impact of a New Service Request on any Affected System, and will include those results in the Phase II System Impact Study if available from the Affected System. Applicant will cooperate with Transmission Provider in all matters related to the conduct of studies by Affected System Operators and the determination of modifications to Affected Systems needed to accommodate Applicant's New Service Request.

#### **SECTION 6: CONFIDENTIALITY**

- 26. Applicant agrees to provide all information requested by Transmission Provider necessary to complete and review this Application. Subject to this section 6, and to the extent required by Tariff, Part VIII, Subpart E, section 17, information provided pursuant to this Application shall be and remain confidential.
- 27. Upon completion of each System Impact Study for a New Service Request, the corresponding reports will be listed on Transmission Provider's website and, to the extent required by Tariff, Part VIII, Subpart E, section 17 or Commission regulations, will be

- made publicly available. Applicant acknowledges and consents to such disclosures as may be required under Tariff, Part VIII, Subpart E, section 17 or Commission regulations.
- 28. Applicant acknowledges that, consistent with the confidentiality provisions of Tariff, Part VIII, Subpart E, section 17, Transmission Provider may contract with consultants, including Transmission Owners, to provide services or expertise in the study process, and Transmission Provider may disseminate information as necessary to those consultants, and rely upon them to conduct part or all of the System Impact Studies.

#### **SECTION 7: COST RESPONSIBILITY**

- 29. Transmission Provider shall apply Applicant's Study Deposit in payment of the invoices for the costs of the System Impact Studies.
- 30. Actual study costs may exceed the Study Deposit. Notwithstanding the amount of the Study Deposit, Applicant shall reimburse Transmission Provider for all, or for Applicant's allocated portion of, the actual cost of the System Impact Studies in accordance with Applicant's cost responsibility. Applicant is responsible for, and must pay, all actual study costs. If Transmission Provider sends Applicant notification of additional study costs, then Applicant must either: (i) pay all additional study costs within 20 days (or, if the 20<sup>th</sup> day is not a Business Day, then the next Business Day) of Transmission Provider sending the notification of such additional study costs or (ii) withdraw its New Service Request. If Applicant fails to complete either (i) or (ii), then Transmission Provider shall deem the New Service Request to be terminated and withdrawn.

## SECTION 8: DISCLAIMER OF WARRANTY, LIMITATION OF LIABILITY

In completing the System Impact Studies, Transmission Provider, Transmission Owner(s), 31. and any other subcontractors employed by Transmission Provider must rely on information provided by Applicant and possibly by third parties, and may not have control over the accuracy of such information. Accordingly, NEITHER TRANSMISSION PROVIDER, TRANSMISSION OWNER(S), NOR ANY OTHER SUBCONTRACTORS EMPLOYED BY TRANSMISSION PROVIDER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE ACCURACY, CONTENT, OR CONCLUSIONS OF THE SYSTEM IMPACT STUDIES. Applicant acknowledges that it has not relied on any representations or warranties not specifically set forth herein, and that no such representations or warranties have formed the basis of its bargain hereunder. Neither this Agreement nor the System Impact Studies prepared hereunder is intended, nor shall either be interpreted, to constitute agreement by Transmission Provider or Transmission Owner(s) to provide Interconnection Service or transmission service to or on behalf of Applicant either at this time or in the future.

32. In no event will Transmission Provider, Transmission Owner(s), or other subcontractors employed by Transmission Provider be liable for indirect, special, incidental, punitive, or consequential damages of any kind including loss of profits, whether under this agreement or otherwise, even if Transmission Provider, Transmission Owner(s), or other subcontractors employed by Transmission Provider have been advised of the possibility of such a loss. Nor shall Transmission Provider, Transmission Owner(s), or other subcontractors employed by Transmission Provider be liable for any delay in delivery or of the non-performance or delay in performance of Transmission Provider's obligations under this Agreement.

#### **SECTION 10: MISCELLANEOUS**

- Any notice or request made to or by either Party regarding this Agreement shall be made to the representative of the other Party as indicated below.
- 34. Transmission Provider:

PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, PA 19403 interconnectionagreementnotices@pim.com

Applicant:		

- 35. No waiver by either Party of one or more defaults by the other in performance of any of the provisions of this Agreement shall operate or be construed as a waiver of any other or further default or defaults, whether of a like or different character.
- 36. This Agreement, or any part thereof, may not be amended, modified, or waived other than by a writing signed by all Parties.
- 37. This Agreement shall be binding upon the Parties, their heirs, executors, administrators, successors, and assigns.
- 38. This Agreement shall become effective on the date it is executed by both Parties and shall remain in effect until the earlier of (a) the date on which Applicant enters into a final Service Agreement with PJM (and Transmission Owner as applicable) in accordance with Tariff, Part VIII, Subpart D or (b) termination or withdrawal of this Application.

## 39. Governing Law, Regulatory Authority, and Rules:

This Agreement shall be deemed a contract made under, and the interpretation and performance of this Agreement and each of its provisions shall be governed and construed in accordance with, the applicable Federal laws and/or laws of the State of Delaware without regard to conflicts of law provisions that would apply the laws of another jurisdiction. This Agreement is subject to all Applicable Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a Governmental Authority.

### 40. No Third-Party Beneficiaries:

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest, and where permitted their assigns.

## 41. Multiple Counterparts:

This Agreement may be executed in two or more counterparts, each of which is deemed an original but all of which constitute one and the same instrument.

### 42. No Partnership:

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power, or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

## 43. Severability:

If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

## 44. Reservation of Rights:

Transmission Provider shall have the right to make a unilateral filing with the Federal Energy Regulatory Commission ("FERC") to modify this Agreement with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation under section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder; and Applicant shall have the right to make a unilateral filing with FERC to modify this Agreement under any applicable provision of the Federal Power Act and FERC's rules and regulations; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before FERC in which such modifications may be considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under sections 205 or 206 of the Federal Power Act and FERC's rules and regulations, except to the extent that the Parties otherwise

agree as provided herein.



IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective authorized officials.

Name	Title	Date
Printed Name		
icant: [Name of Party]		
Name	Title	Date
ivaine	Title	Date
Printed Name		