

Proposed Manual 14A Changes

Changes to Section 1.8 and minor language cleanup to add clarity and consistency

Section 1.8 Proposed Changes

1.8 Changes to Existing or Proposed Generation

An existing or proposed generating unit may experience changes which will require consideration under PJM's interconnection, process:

- **Unit Output Increases:** If a ~~generation owner~~ Generation Owner plans to increase the ~~output capability~~ Maximum Facility Output (MFO) or the amount of Capacity Interconnection Rights (CIRs) of an existing ~~plant~~ generating unit or active Interconnection Request in the PJM study queue to a MW value greater than the amount ~~by more than 1 MW above that~~ already specified in a generating ~~plant's unit's~~ existing ISA or active Interconnection Request, then that additional ~~capability~~ MFO or CIRs will be ~~is~~ treated as a new generation Interconnection Request subject to the procedures discussed in Manual ~~14B-14A~~. If a proposed ~~plant~~ generating unit increase is less than 20 MW, the generation owner may be eligible to follow the Small Generation Interconnection Process, ~~introduced below~~ set forth in Part IV, subpart G of the PJM Tariff and discussed herein below.

If a Generation Owner changes the electrical characteristics of the existing generating unit(s) than what was previously studied by PJM, but is not increasing the MFO or CIRs, then the Generation Owner must request that a Necessary Study be performed by PJM (See Attachment O, Appendix 2, Section 3.1). Even when not increasing MFO or CIRs, if a Generation Owner wishes to parallel generating units in excess of the number of units previously studied by PJM, this would change the electrical characteristic and require a Necessary Study prior to operating with additional generating units. If a Generation Owner installs a spare generating unit with different electrical characteristics than the primary generating unit, the spare generating unit must be studied with a Necessary Study prior to being paralleled with the system.

Minor Language Cleanup

About This Manual

This PJM Manual, *Generation and Transmission Interconnection Process* is one of the PJM Manual 14 series family. This manual guides developers of generation and merchant transmission projects through the planning up to the request for facility construction.

Intended Audience

The intended audience for this PJM Manual includes the following:

- Developers of generation and merchant transmission facilities and their staffs interested in locating facilities within PJM.
- Existing Generation Owners planning increases ~~of 1 MW or more~~ to an existing generating resource.
- PJM Transmission Owners and other PJM Members and their staffs.
- PJM Staff.

Minor Language Cleanup (cont.)

1.10 Distributed Generation

Developers who are considering construction of generating facilities within PJM which are ~~smaller than~~ 20 MW or less may follow the Small Generator Interconnection process described above. If a plant operator seeks operation as part of a load management arrangement, the operator is directed to PJM's load management program, found on PJM's web site at <http://www.pjm.com/home.aspx>.

1.11 Behind the Meter Generation

Any Behind the Meter Generation which seeks to be designated in whole or in part as a an energy or capacity resource must submit a Generation Interconnection Request for the portion of the unit's output that will participate in the PJM market. Further, sites with 10 MW or more must abide by PJM metering requirements as well as market, operational and settlement requirements. Manual ~~14B~~14D (Appendix A) describes the treatment of Behind the Meter generation, provisions for which are captured in PJM's Open Access Transmission Tariff, Subpart A, Section 36.1.A.

Minor Language Cleanup (cont.)

2.1.4 Changes to Existing Generators and Transmission Facilities

New owners of existing generators and transmission facilities must execute an Interconnection Service Agreement (ISA) with PJM. Transfer of ownership of existing generating units and transmission facilities is not subject to the interconnection queuing process unless pre-existing capacity injection rights for the unit are not transferred with the change in ownership.

Owners of existing generating plants that plan increases in a plant's output capability ~~by more than 1 MW~~ above that specified in the generating plant's existing ISA must follow the same procedure as new generation specified in the PJM Tariff and the PJM Manuals. These projects will be placed into the interconnection queue and will be evaluated under the same study procedure as new generation.

Minor Language Cleanup (cont.)

2.1.5 Generation and Transmission Interconnection Feasibility Study Analysis and Results

After the Generation or Transmission Interconnection ~~Feasibility Study Agreement Request~~ and deposit are received, PJM assigns a System Planning Senior Consultant as the Team Leader to initiate and direct the implementation of the Study phases of the Generator and/or Transmission Interconnection Process (see Attachment C for PJM Generation and Transmission Planning Team Role Clarity Diagram). Under the direction of the Team Leader, PJM staff, in coordination with any affected Interconnected Transmission Owner(s), will establish a time to hold a Scoping Meeting as described in Section 36.1.5 of the PJM Tariff and the following. The Interconnection Customer is required to choose a primary Point of Interconnection and also has the option to specify a secondary Point of Interconnection to be studied during the Generation or Transmission Interconnection Feasibility Study phase of the Interconnection Request, and also must identify one Point of Interconnection as the primary and the second as the secondary choice. The primary and secondary Points of Interconnection will be studied as follows:

Minor Language Cleanup (cont.)

Table 2-2: Facilities Study costs

Project size	Required deposit
>20MW	The greater of: <u>1.</u> \$100,000 OR <u>2.</u> estimated amount of Facilities Study cost for the first three months
>2MW and \leq 20MW	\$50,000
\leq 2MW	\$15,000

Minor Language Cleanup (cont.)

Section 3: Small Resource Interconnection Process

In this section you will find the following:

- A description of the small resource interconnection process (see “*Small Resources (20 MW or less)*”).
- Specific provisions applicable to resources of 10 MW ~~and below or less~~ (see “*Specific Provisions for Resources of 10 MW ~~and below or Less~~*”).
- Specific provisions applicable to resources greater than 10 MW up to 20 MW (see “*Specific Provisions for Resources ~~above~~ Greater than 10 MW up to 20 MW*”).

3.1 Small Resources (20 MW or less)

Requests for the interconnection of new resources which are 20 MW or less, or increases of 20 MW or less to existing generation (over a 24 month period) may be processed through expedited procedures. (Refer to Part IV, Subpart G of the PJM Tariff.) Expedited procedures are defined in the PJM Tariff for five categories of these “very small resource” additions; permanent Capacity Resource additions of 20MW or less, permanent Energy Resource additions of 20 MW or less, temporary Energy Resource additions of 20 MW or less but greater than 2MW, permanent and temporary Energy Resource additions of 2MW or less, and certified small inverter-based facility additions not t greater ~~larger~~ than 10 kW.

Minor Language Cleanup (cont.)

3.2 Specific Provisions for Resources of 10 MW ~~and below~~ or Less

Under certain circumstances, requests for the interconnection of new resources of 10 MW or less may be expedited through the use of pre-certified generation equipment and systems that meet IEEE Standard 1547 technical requirements. See Attachment E for PJM “Small Generator (10 MW and Below) Technical Requirements and Standards” for full details of the specific provisions that apply to all new generator interconnections with an aggregate size of 10 MW and below at the Point of Interconnection.

3.3 Specific Provisions for Resources ~~above~~ Greater than 10 MW up to 20 MW

Requests for the interconnection of new resources ~~above~~ greater than 10 MW up to 20 MW may also qualify for certain Applicable Standards based on the core IEEE Standard 1547 technical requirements. See Attachment E-1 for PJM “Small Generator (~~above~~ greater than 10 MW up to 20 MW) Technical Requirements and Standards” for full details of the specific provisions that apply to all new generator interconnections with an aggregate size of ~~above~~ greater than 10 MW up to 20 MW at the Point of Interconnection.

Minor Language Cleanup (cont.)

Attachment E: Small Generator (10 MW ~~and Below~~ or Less) Technical Requirements and Standards

E.1 Scope

The PJM Small Generator Interconnection Applicable Technical Requirements and Standards (“Small Generator Standards”) shall apply to all new generator interconnections, within the PJM footprint, with an aggregate size of 10 MW ~~and below~~ or less at the point of interconnection.

E.3 Background and Discussion

Developed by the PJM Small Generator Interconnection Working Group (“SGIWG”), the Small Generation Standards define the uniform technical requirements that each Interconnected Transmission Owner (“ITO”) and Electric Distribution Company (“EDC”) requires for interconnecting to their facilities. The requirements as defined herein will govern for the interconnection of distributed generation 10 MW ~~and below~~ or less.

Minor Language Cleanup (cont.)

Attachment E-1: Small Generator (~~above-greater than~~ 10 MW up to 20 MW) Technical Requirements and Standards

Scope

The PJM Small Generator Interconnection Applicable Technical Requirements and Standards (“Small Generator Standards – Attachment E-1”) shall apply to all new generator interconnections, within the PJM footprint, with an aggregate size of greater than 10 MW up to 20 MW at the point of interconnection.

Background and Discussion

Attachment H-1 was developed by the PJM Small Generator Interconnection Working Group (“SGIWG”). The Small Generation Standards define the uniform technical requirements that each Interconnected Transmission Owner (“ITO”) and Electric Distribution Company (“EDC”) require for interconnecting to their facilities. The requirements as defined herein will govern for the interconnection of distributed generation ~~above-greater than~~ 10 MW up to 20 MW. Attachment E-1 is a companion document to Attachment E: Small Generator (10 MW ~~and Below or Less~~) Technical Requirements and Standards.

Minor Language Cleanup (cont.)

Applicable Technical Requirements and Standards

IEEE Standard 1547 shall constitute the total technical requirements and standards for interconnection of small generators ~~above~~greater than 10 MW up to 20 MW with the following noted exceptions, additions, and clarifications. IEEE Standard 1547.1 constitutes the requirement for test conformance to IEEE Standard 1547.