

PJM Transmission Providers Facilities List On-Line Help

The PJM Transmission Providers **FACILITIES LIST**, found on the PJM web-site at <http://www.pjm.com/markets-and-operations/ops-analysis/transmission-facilities.aspx>, is organized and maintained to delineate individual transmission owner/operator facilities. The facilities on the list are those identified by PJM Transmission Owners. The listings identify and correlate facilities owned by PJM participants with equipment modeled in the PJM EMS.

The posting of these files is in compliance with FERC Order No. 888's ISO Principal No. 5. As a condition of approving PJM as an ISO, FERC directed PJM to maintain a publicly available list of the transmission facilities under PJM's control. See 81 FERC ¶ 61,257 at 62,268 (1997) (page 42). FERC directed that: **"PJM-OI must maintained a detailed, up-to-date register which must be available to the public and this commission, either on the PJM web site or the PJM OASIS of the transmission lines and associated facilities controlled by the ISO."**

Equipment designations from the PJM EMS are provided (B1 Name, B2 Name, B3 Name and B3 Text and voltage class) along with key information denoting if the facility is:

Column I – PJM OAT Tariff Facility

Transmission Owners are required to indicate if the facility listed is included in their FERC Form 1 filing. PJM models most, but not all, OAT facilities in their EMS Model. In addition, to ensure accurate modeling, PJM may require that the transmission owner model facilities that are not included in FERC Form 1. FERC Form No. 1 (FERC Form 1) is an annual regulatory requirement for Major electric utilities, licensees and others (18 C.F.R. § 141.1). This report is designed to collect financial and operational information from electric utilities, licensees, and others subject to the jurisdiction of the Federal Energy Regulatory Commission.

Column J – Included in EMS Model

A YES in this column indicates that the equipment is modeled in the PJM EMS system used for reliability evaluations and for congestion management analysis.

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Column K – Reportable Transmission Facility

Transmission Owners are required to report scheduled and forced outages for Reportable Transmission Facilities. Outage information is reported through EDART and through the status obtained via computer link to the EMS. **A Transmission Facility is reportable if a change of its status can affect, or has the potential to affect, a transmission constraint on any Monitored Transmission Facility. A facility is also reportable if it impedes the free-flowing ties within the PJM RTO and/or adjacent areas.** Facilities can be designated YES, LOW or NO. See description below under “PJM Status” for an explanation of these designations.

Column L – Monitored Transmission Facility

Monitored Transmission Facilities are identified by the Transmission Owner and evaluated by PJM in accordance with the requirements of Manual 03A: Energy Management System Model Updates and Quality Assurance, Section 2.4.2. Observable Facilities accepted by PJM as part of congestion control. Monitored Transmission Facilities are monitored and controlled for limit violations using PJM’s Security Analysis programs. Controlling limit violations on Monitored Transmission Facilities may result in constrained operation including re-dispatch and/or TLR curtailments. PJM Open Access Transmission Tariff (OATT) Facilities operating at less than 100KV may be monitored for any of the following criteria:

- Vital to the operation of the PJM RTO
- Affects the interconnection operation of the PJM RTO with other control areas
- Affect the capability and reliability of generating facilities or the power system model that is used by PJM to monitor these facilities
- Significantly impact transmission facilities with nominal voltage of 69KV or greater if outaged
- Affects the PJM Energy Market if outaged
- May result in constrained operations to control limit violations

Facilities in the posted information can be designated Not Monitored, Reliability & Markets, Reliability-BES, Status Only, External Status Only, Reliability Non-BES, GSUs, Future. See the table on the following page of a description of these designations.

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Column M – BES Flag

Each year around the middle of July, PJM sends out a list to each Transmission Owner of all equipment that is currently modeled in PJM EMS. This list includes PJM Reportable Transmission Facilities, Observable Transmission Facilities, Transmission Facilities Not Monitored by PJM in **addition to all facilities requesting exception from NERC through the BES Net tool. Each Transmission Owner must review this list for accuracy.** Transmission Owners must identify equipment listed as BES Facility or Non-BES Facility as per Manual 03A: Energy Management System Model Updates and Quality Assurance, Section 4.9.3.

Column N – Effective Date

PJM makes periodic updates to the Monitored Facilities list. In addition to the yearly request submitted by the Transmission Owners PJM makes updates after each quarterly model build to include future equipment that was added to the model and updates weekly to accommodate equipment being energized.

Priority	Name	Description
0	Not Monitored, No status	Also referred to as Unmonitored <ul style="list-style-type: none"> • Applies to facilities which may, or may not, be modeled in the PJM EMS • No significant impact on system loading is expected to result from outages on these facilities • PJM's EMS does not Maintain ratings/limits for these facilities
1	Reliability & Markets	Applies to internal PJM facilities under Congestion Management <ul style="list-style-type: none"> • Equipment designated as Reliability & Markets can only be changed in or out of this status once a year at the yearly review as stated in Manual 03A. • If actual or post-contingency violations occur on these facilities, operators follow appropriate procedures, including market re-dispatch, to remediate problems • PJM's EMS maintains ratings/limits for the facilities • Transmission Owners are required to report outages on all facilities
Priority	Name	Description
2	Reliability BES	Applies to facilities defined as part of the Bulk Electric System (BES) or facilities PJM is responsible for as NERC Reliability Coordinator. <ul style="list-style-type: none"> • May also apply to internal PJM facilities impacted by switching/phase

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		<p>shifter operations on parallel PJM facilities which are under Congestion Management</p> <ul style="list-style-type: none"> • If actual or calculated overloads occur, operators follow appropriate procedures to remediate the problem • Facility owners are responsible for any off-cost operation incurred • Transmission Owners are required to report outages on all facilities • PJM's EMS maintains ratings/limits for these facilities
3	Status Only	<ul style="list-style-type: none"> • Transmission Owners are required to report outages on facilities that are not in Congestion Management but may impact the reliability and/or economics of the system • Transmission Owners are required to follow applicable outage reporting procedures for facilities classified as Reportable High/Yes and Reportable Low. The primary difference in these classifications is that the Reportable High/Yes facilities, Transmission Owners are required to call before and after taking outages whereas Transmission Owners are not required to call PJM before an outage on Reportable Low facilities. • Transmission Owners are not required to report outages on facilities classified as Reportable No to PJM. PJM can require that any, or all, OATT facilities be Outage Reportable. • PJM's EMS does not maintain ratings/limits for these facilities
4	External	<p>Similar to priority 2 but for non-PJM facilities. These facilities are not posted on PJM.com.</p> <ul style="list-style-type: none"> • These external facilities could impact the PJM system as a part of Market-to-Market Congestion Management flow-gate coordination between adjacent RTO's • PJM's EMS maintains rating/limits for these facilities
5	External Status Only	<p>Similar to priority 3 but applied to external, non-PJM facilities. These facilities are not posted on PJM.com</p> <ul style="list-style-type: none"> • PJM's EMS does not maintain ratings/limits for these facilities
6	Reliability Non-BES	<p>Similar to priority 2 but applies to facilities that may be monitored for loading by PJM but are not included as Reliability & Markets or BES facilities.</p> <ul style="list-style-type: none"> • Facilities are generally included in this category at the request of the Transmission Owner. If actual or calculated overloads occur, operators develop remedial strategies in cooperation with the Facility Owner • Corrective strategies are implemented as approved by the Facility Owner • Facility Owners assume responsibility for off-cost operation • Transmission Owners are required to report outages on all facilities • PJM's EMS maintains ratings/limits for these facilities
7	GSU	<p>Similar to priority 2 but applies to generator step-ups</p> <ul style="list-style-type: none"> • Facility owners are responsible for costs incurred to remediate

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Priority	Name	Description
		problems <ul style="list-style-type: none">• PJM's EMS maintains ratings/limits for these facilities• Transmission Owners are required to report outages on all facilities
8	Future	Applies to facilities that are candidates for, but not yet approved, inclusion in Reliability& Markets or facilities that are modeled but not yet in service
General Notes:		For Security Analysis, the PJM EMS is typically set to monitored facilities with priority 1 through 5. As required, these settings are changed to include the remaining facility categories. These facility classifications are utilized in PJM planning and operations.

For more information about Outage Reportable Facilities see Manual 03A: Energy Management System Model Updates and Quality Assurances.