

## **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/services/transm-facilities.jsp>, 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. Equipment designations from the PJM EMS are provided (B1 Name, B2 Name, B3 Name and B3 Text and voltage class, columns D, E, F, G and H) along with key information denoting if the facility is:

- Included in the Transmission Owner's Open Access Transmission (OAT) Tariff filing (column I);
- Included in the PJM EMS model (column J);
- Considered Outage Reportable (column K); or,
- Monitored for the PJM Market, for reliability or for status (column L).

### **PJM OAT Tariff Facility (column I)**

Transmission Owners are required to indicate if the facility listed is included in their FERC Form 1 filing. PJM's EMS models most, but not all, OAT facilities. In addition, to ensure accurate modeling, PJM may require that the transmission owner model facilities that are not included in FERC Form 1.

### **Included in EMS Model (column J)**

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

### **Reportable Transmission Facility (column K)**

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.

For more information about Outage Reportable facilities see *Manual 3a: Energy Management System Model Updates and Quality Assurance*.

## Monitored Transmission Facility (column L)

Monitored Transmission Facilities are identified by the Transmission Owner and evaluated by PJM in accordance with the requirements of *Manual 3a: Energy Management System Model Updates and Quality Assurance*. 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 230 kV may be monitored for any of the following criteria:

- Vital to the operation of the PJM RTO
- Affects the interconnected operation of the PJM RTO with other Control Areas
- Affects 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 a nominal voltage of 230 kV 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 Reliability, External Status Only, Reliability-NonBES, GSUs, Fuure. See the table on the following page for a description of these designations.

For more information about Monitored facilities see *Manual 3a: Energy Management System Model Updates and Quality Assurance*.

Priority	Name	Description
0	Not monitored, No status	Also referred to as Unmonitored, 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. 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.
2	Reliability BES	Applies to facilities defined as part of the Bulk Electric System (BES) or facilities PJM is responsible for as NERC Security/Reliability Coordinator. These facilities are not included in Reliability & Markets. May also apply to internal PJM facilities impacted by switching/phase shifter operations on parallel PJM facilities which are under Congestion Management. If actual or calculated overloads occur, operators follow appropriate procedures to remediate the problem. Facility owners are responsible for any off-cost operation incurred. PJM's EMS maintains ratings/limits for these facilities.
3	Status Only	TOs are required to report outages on all facilities classified as priority 1, 2, 5, 6 & 7. In addition, TOs are required to report outages on facilities that are not in Congestion Management but may impact the reliability and/or economics of the system. TOs are required to follow applicable outage reporting procedures for facilities classified as Reportable <u>H</u> igh/ <u>Y</u> es and Reportable <u>L</u> ow. The primary difference in these classifications is that for Reportable <u>H</u> igh/ <u>Y</u> es facilities, TOs are required to call before and after taking outages whereas TOs are not required to call PJM before taking an outage on Reportable <u>L</u> ow facilities. TOs are not required to report outages on facilities classified as Reportable <u>N</u> o 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	Similar to priority 2 but for non-PJM facilities. These external facilities could impact the PJM system as a part of Market-to-Market Congestion Management flow-gate coordination between adjacent RTOs. PJM's EMS maintains ratings/limits for these facilities
5	External Status Only	Similar to priority 3 but applied to external, non-PJM facilities. PJM's EMS does not maintain ratings/limits for these facilities.
6	Reliability Non- BES	Similar to priority 2 but applies to facilities that may be monitored for loading by PJM but are not included as Markets & Reliability or BES facilities. 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 owner. Owners assume responsibility for off-cost operation. PJM's EMS maintains ratings/limits for these facilities.
7	GSU	Similar to priority 2 but applies to generator step-ups. Facility owners are responsible for costs incurred to remediate problems. PJM's EMS maintains ratings/limits for these 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: Doc #331840	For Security Analysis, PJM the EMS is typically set to monitor all 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.