

Impact of MISO West Area DPP generators on PJM Facilities

DPP – 2013 – August

1. MISO generators studied:

MISO Project	Point of Interconnection	Max Output	Fuel Type
J233	Marshalltown 161 kV sub	635 (sum); 700 (win)	CC
J274	Winterset. - Creston 161 kV (50%)	100	Wind
J278	Pleasant Valley 161 kV sub	200	Wind
J279	Raun 345 kV sub	30	Coal
J288	Atwater - Grove City 69kV (0.8 miles north of GRE Atwater Sub)	40	Wind
J290	Rugby – Glenboro 230 kV (50%)	150	Wind

2. Summer Peak analysis

- Model used – PJM Y2 2016SP with the above MISO generators and previous MISO DPP generators added
- Contingencies used – All PJM category B and C contingencies
- Monitored areas – All PJM areas
- Analysis type – Generation Deliverability
- All generators were scaled to their respective capacity portions for base case and category B events
- All generators were scaled to their respective total capabilities for category C events
- Results – **No summer peak impacts**

3. Light Load analysis

- a. Model used – PJM X4 2015LL with the above MISO generators and previous MISO DPP generators added with the following fuel types – wind, coal, and nuclear
- b. Contingencies used – All PJM category B and C contingencies
- c. Monitored areas – All PJM areas
- d. Analysis type – Generation Deliverability
 - a. All wind generators were scaled to 80% of their respective total capabilities for base case, category B, and category C events
 - b. The coal generator was scaled to 45% of its respective total capabilities for base case, category B, and category C events
- e. Results – **No light load impacts**