

Impacts of MISO February 2013 DPP generators on PJM Facilities

1. MISO generators studied:

MISO Project	Point of Interconnection	Max Summer Output	Fuel Type
G858	XEL Black Oak 69 kV Substation	38	Wind
H071	Xcel Black Oak 69 kV Substation	40	Wind
J054	DEM Kokomo - Noblesville 230kV	197.8	Wind
J118	MEC Drager - Grand Junction 161 kV	50	Wind
J201	METC Manning 138kV Substation	20	Wind
J256	NIPSCO Plymouth 69kV	8	Gas
J262	OTP Jamestown 345/115 kV substation	100	Wind
J263	OTP Jamestown 345/115 kV Substation	100	Wind

2. Summer Peak analysis

- Model used – PJM 2015SP with the above MISO 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 violations were identified**

3. Light Load analysis

- Model used – PJM 2015LL with the above MISO generators added
- Contingencies used – All PJM category B and C contingencies
- Monitored areas – All PJM areas
- Analysis type – Generation Deliverability
 - All wind generators were scaled to 80% of their respective total capabilities for base case, category B, and category C events
 - The coal generator was scaled to 45%(or 60%) of its respective total capabilities for base case, category B, and category C events
 - Gas generators were not studied for light load conditions
- Results – **No light load violations were identified**