

PJM DNP 3 Implementation Level 2 Data/Object/Format/Rate

Data Quantity	DNP Object Type	Data Format	Scan Rate
Typical Revenue Meter Data at Utility Interconnection Point (Direct from Meter or through RTU)			
Net MW	30.2	(+/-) nnnn.n	2 Seconds
Net Mvar	30.2	(+/-) nnnn.n	2 Seconds
Phase A L-L KVolts	30.2	nnnn.n	2 Seconds
PJM Rec MWH	21.1 *	nnnn.nnn	30 Seconds
PJM Del MWH	21.1 *	nnnn.nnn	30 Seconds
PJM Rec MvarH	21.1 *	nnnn.nnn	30 Seconds
PJM Del MvarH	21.1 *	nnnn.nnn	30 Seconds
PJM Rec MWH Events	23.5 **	nnnn.nnn	30 Seconds
PJM Del MWH Events	23.5 **	nnnn.nnn	30 Seconds
PJM Rec MVarH Events	23.5 **	nnnn.nnn	30 Seconds
PJM Del MVarH Events	23.5 **	nnnn.nnn	30 Seconds
CB/Disconnect Status	1.1	0/1	2 Seconds

Typical DCS Unit Data (Direct from DCS or through RTU)

Net MW	30.2	(+/-) nnnn.n	2 Seconds
Net MVar	30.2	(+/-) nnnn.n	2 Seconds
Phase A L-L Terminal KVolts	30.2	nnnn.n	2 Seconds
Unit Regulation Capability	30.2	nnnn.n	2 Seconds
Plant Regulation Capability	30.2	nnnn.n	2 Seconds
CB/Disconnect Status	1.1	0/1	2 Seconds

If Unit Data Gross not Net then unit Station Service Required (Direct from DCS or through RTU)

SS MW	30.2	(+/-) nnnn.n	2 Seconds
SS MVar	30.2	(+/-) nnnn.n	2 Seconds

Typical Step Up Transformer Data (From RTU)

Net TX Primary MW	30.2	(+/-) nnnn.n	2 Seconds
Net TX Primary Mvar	30.2	(+/-) nnnn.n	2 Seconds
Primary Phase A L-L KVolts	30.2	nnnn.n	2 Seconds
Net TX Secondary MW	30.2	(+/-) nnnn.n	2 Seconds
Net TX Secondary Mvar	30.2	(+/-) nnnn.n	2 Seconds
Secondary Phase A L-L KVolts	30.2	nnnn.n	2 Seconds
Primary CB/Disconnect Status	1.1	0/1	2 Seconds
Secondary CB/Disconnect Status	1.1	0/1	2 Seconds

Typical Data Sent To Customer From PJM

Zonal Dispatch Lambda	41.2	(+/-) nnn.n	Exception
Unit Dispatch Lambda	41.2	(+/-) nnn.n	Exception
Unit Desired MW	41.2	(+/-) nnnn.n	Exception
Unit Regulation MW	41.2	(+/-) nnnn.n	Exception
Plant Regulation MW	41.2	(+/-) nnnn.n	Exception

Customer Reflects Signals sent by PJM as Analogs

Zonal Dispatch Lambda Mirror	30.2	(+/-) nnn.n	2 Seconds
Unit Dispatch Lambda Mirror	30.2	(+/-) nnn.n	2 Seconds
Unit Desired MW Mirror	30.2	(+/-) nnnn.n	2 Seconds
Plant Regulation MW Mirror	30.2	(+/-) nnnn.n	2 Seconds
Unit Regulation MW Mirror	30.2	(+/-) nnnn.n	2 Seconds

- * Hourly static frozen counter data collected every 30 seconds – RTU/Meter is self freezing
- ** Hourly frozen counter event data collected by a DNP 3 Class 3 scan every 30 seconds
- *** Analog and Counter readings are in primary units – PJM does not accept values that must be scaled by the CT/PT ratios from the field equipment.