

Measure 7 Data Request Instructions – Real-Time:

Updated Sept 7, 2016. Updates are in *blue*.

1. BAs will supply data for the (non-coincident) summer peak.
2. BAs will provide details for Dynamic and Static reactive capabilities, and Load power factors.
 - a. For the current year and future years of 2016, 2017 and 2020 (power flow planning cases)
 - b. For the historic years of 2013, 2014, and 2015 (EMS/real-time information).

General Notes for real-time information:

- Peak load means the summer peak load demand served.
- For the Static reactive capability, ignore the reactive contribution from shunt reactors.
- The data collected about generators should be at the low-side of GSUs when available.
- If the entity wishes to define specific reactive zones of interest within the BA, please provide an additional separate workbook with the real-time data about each specific reactive zone for which planning case data was provided.

Generator MVar worksheets:

Rotating Dynamic, SVC, D-VAR, STATCOM & Power Electronics based Dynamic VAR

Real-time or EMS data should be used to provide the data listed below. Add rows as appropriate for the amount of your rotating/dynamic reactive devices. When reporting reactive power data for variable (e.g. wind, solar) resources please report QMax data based on *plant* actual PGen output instead of installed capacity. *This would be the actual Qmax value associated with the given Pgen level. If this is not readily available, report Qgen as Qmax.*

- Bus Number – Interconnection Load Flow Model Bus Number
- Bus Name - Bus name for units in service.
- Unit (element) Id
- Area Number
- Area Name
- Zone Number
- Zone Name
- In Service State – "1" indicates the unit was in service. "0" indicates the unit was not in service.
- QGen (MVar) - QGen, is the actual MVar output of the in service unit/element.
- QMax (MVar) - QMax, is the maximum MVar capability of the in service unit/element @ PMax.
- Q Reserve - calculated by QMax minus QGen.

- EIA 860 Plant code – if known
- EIA 860 Unit code – if known
- GADS utility and unit code – if known

SVCs from the Switched Shunt data with continuous control mode

Add rows as appropriate to report each reactive device.

- Bus Number – Interconnection Load Flow Model Bus Number
- Bus Name
- Area Number
- Area Name
- Zone Number
- Zone Name
- Binit (MVar)
- Blk 1 Steps
- Blk 1 Bstep (MVar)
- Blk 2 Steps
- Blk 2 Bstep (MVar)
- Total Capacitive (MVar) - total Capacitive MVar of each device. The inductive MVar is not to be included in this data reporting.
- Cap MVar reserve (Total – Binit) - Calculated by Total Cap MVar - Binit

BA Total Dynamic var

- Rotating MVar - Rotating MVar Produced by synchronous generators.
- SVC, D-VAR, STATCOM & Power Electronics based Dynamic MVar - sum of total Non-rotating dynamic reactive MVar.
- Total Dynamic MVar Produced
- Rotating MVar - Rotating MVar reserve from synchronous generators.
- SVC, D-VAR, STATCOM & Power Electronics based Dynamic MVar
- Total Dynamic MVar Reserve

Static Capacitor MVAR Worksheets

Add rows as appropriate to report your reactive devices. All MVar values from the Switched Shunt data are nominal rated MVar. Only include capacitors connected above 100 kV.

- Bus Number – Interconnection Load Flow Model Bus Number
- Bus Name
- Area Number
- Area Name
- Zone Number
- Zone Name
- Binit (MVAr).
- Blk 1 Steps
- Blk 1 Bstep (MVAr)
- Blk 2 Steps
- Blk 2 Bstep (MVAr)
- Blk 3 Steps
- Blk 3 Bstep (MVAr)
- Blk 4 Steps
- Blk 4 Bstep (MVAr)
- Blk 5 Steps
- Blk 5 Bstep (MVAr)
- Total Cap MVAr - Capacitive MVAr of each device. The inductive MVAr should not be included in this reporting.
- Cap MVAr Reserve

Load Trend Worksheets

- MW – total actual Load MW
- MVAr –total actual Load MVAr
- MVA –load calculated by Columns MW and MVAr
- PF –load power factor
- State if the data is from the “high side” or “low side” of the transmission bus