FAQ document on ERS measure 7 data request

Q1. On the real-time instructions it states, "Q_{Max}, is the maximum MVAr capability of the in service unit/element @ P_{Max}" while on the planning instructions it states, "Q_{Max}, is the maximum MVAr capability of the in service unit at the P_{Gen} MW. For which real power output is Q_{Max} being requested?

A1. The reactive capability to be reported is Q_{Max}, and the value in the power flow planning model data Q_{Max} should be consistent with the BAs rating practice to determine Q_{Max}. If the Q_{Max} in the planning model is represented at some assumed power factor, the value should reflect the assumed power factor for the planning Q_{Max}. If the Q_{Max} in the planning model is the maximum Q on the generator "D curve", that Q_{Max} should be used. In either case note your BA rating practice in the worksheet. The Q_{Max} for the actual reactive capability should be consistent with the rating practice reported for the power flow planning models.

Q2. The load reporting instructions asks the respondent to state whether the load data is from the "high side" or "low side" of the transmission bus. Transformers, not busses have a high and low side. What information is being requested here?

A2. Since the load data requested is the total BA load, the intent is to determine if the reported data reflects the load from the high side or low side of the distribution (load) transformers. This will inform the analysis as to whether the distribution transformer reactive load is included in the load data.

Q3. Our bus identification for the real-time data does not correspond to power flow model bus numbers. Do we have to take the time to manually add the power flow bus numbers to the real-time data?

A3. While we would prefer to have power flow bus numbers associated with the real-time bus data, it is not essential that the power flow bus numbers be included. We do, however, need bus identification (number, name, etc.) for all busses with reactive capability.

Q4. I have a generator that has a maximum rated power output of 200 MW in the power flow models. At 200 MW the generator can produce 75 MVAr. At the time of the peak in 2014, it generated at 190 MW and 65 MVAr. At 190 MW the generator can produce 89 MVAr. What should I report for reactive capability and reactive deployment for 2014?

A4. The reported reactive capability is 75 MVAr. The deployed reactive is 65 MVAr.

Q5. I have a generator which has 100MVAr capability and it provides 50MVAr for 2016, 60MVAr for 2017 and 70MVAr for 2020. What do I record in the spreadsheet?

A5. The spreadsheet has a separate tab for each year, so all three values would be recorded.

Q6. For the Real-Time Data, should EMS data be pulled at the BA Peak for 2013, 2014 and 2015?

A6. Yes. We understand that each BA will have its summer peak at different times and different days, and some BAs' peak load is in winter rather than summer. For this data collection we only want data from the BA's summer peak. We are not looking for annual peak or coincident peak data.