



PJM Demand Response Interval Meter Equipment and Load Data Requirements

September 14, 2009

- Meter Task Force (under Demand Response Steering Committee) developed new rules in fall 2008 that were adopted by stakeholders in Spring 2009 with an effective date of 10/1/2009
 - Curtailment Service Providers given ~6 months to ensure any existing equipment & load data systems are in compliance with new rules.
 - Rules are outlined in Manual 11, section 10 under Interval Meter Equipment and Load Data Requirements

- Interval meter equipment and load data used for retail electric service qualifies for use for PJM DSR activity
 - Already subject to retail regulatory authority metering standards
- Non-retail service equipment & load data subject to PJM rules
 - Ensure accuracy of equipment & quality of load data is within +/-2% accuracy outlined in OATT/OA

- Meter equipment standards
 - Meter or pulse data recorder (PDR) must meet ANSI c12.1
 - Optional field test available
 - CT/PT must meet ANSI c57.13
 - If PDR connected to retail service meter then it complies (EDC CT/PT/meter already complies).
- Load Data must meet NAESB VEE standards
 - <http://www.naesb.org/pdf/ubp120500.pdf>.
 - Appendix 5 VEE for interval meters or pages 144 to 164.
- Pulse Data Recorder clock should be checked and reconciled on a daily or per communication basis
 - Network time protocol may be utilized

- CSP submits quality assurance plan
 - Indicate how CSP ensures installation is correct and that meter equipment & load data remain accurate overtime.
- CSP indicates “customer owned” meter on eLRS location that is part of a registration
- CSP submits “DSR customer owned meter qualification form” to dsr_ops@pjm.com
 - <http://www.pjm.com/markets-and-operations/etools/~//media/etools/elrs/20090904-dsr-customer-ownder-meter-qualification-form.ashx>
- PJM reviews registration & contacts CSP as necessary
 - Registration must be approved by PJM
- CSP uploads 90 consecutive days of hourly load data on an annual basis near effective date of registration to eLRS.
 - Use eLRS “daily file format” for meter data upload
 - LSE may download meter data as needed for additional review
 - If CSP has emergency registration and will use generator data for gld compliance you do not need to load the 90 days of load data
 - If meter data is not loaded PJM will request from CSP as needed either by PJM or LSE

- If I use the interval meter equipment and load data used for retail electric service do I need to complete the PJM meter qualification form?
 - No, just make sure you correctly designate the meter type as EDC meter on the location in eLRS.
- What should I do if my pulse data recorder does not meet ANSI C12.1
 - You may request to do a field test that will include reconciliation of PDR load data to retail service meter and potential installation of temporary interval meter equipment (that does meet ANSI requirements)
- Do the new meter rules apply to meter equipment used for synchronized reserve participation?
 - Yes
- Where should I go to learn more about meter data file formats and eLRS?
 - See User Guide located at <http://www.pjm.com/markets-and-operations/etools/elrs.aspx>.