# Sub-zonal dispatch procedure for '11/'12 Delivery Year

DRS (Demand Response Subcommittee)

5/27/2011

- Sub-zonal dispatch by:
  - State/DC by zone combination
  - zone by zip code defined sub zone
  - LDA nested within zone
- CSP must have accurate zip code on location in eLRS – this will be used to determined which registrations are dispatched.
- Subzone definitions can found at http://pjm.com/markets-and-operations/demand-response/dr-capacity-market.aspx
  - Look under subzone definitions
- If new sub zone needs to be defined during the DY, PJM will publish list of zip codes 3 days in advance on a best efforts basis of anticipated need.
  - PJM will provide CSP with list of registrations required to respond upon request.
    - See document posted under agenda item 2d for example report.
- Aggregate registrations (more than one location) must respond with all locations if at least 1 location is in sub-zone

Subzones are only dispatched when necessary – this should be a rare situation

| Zone | SubzoneType | Subzone |
| --- | --- | --- |
| AECO | | na |
| BGE | | na |
| COMED | | na |
| DAY | | na |
| DUQ | | na |
| JCPL | | na |
| PECO | | na |
| RECO | | na |
| AEP | State | AEP_IN |
| AEP | State | AEP_KY |
| AEP | State | AEP_MI |
| AEP | State | AEP_OH |
| AEP | State | AEP_TN |
| AEP | State | AEP_VA |
| AEP | State | AEP_WV |
| APS | State | APS_MD |
| APS | State | APS_PA |
| APS | State | APS_VA |
| APS | State | APS_WV |
| ATSI | State | ATSI_OH |
| ATSI | State | ATSI_PA |
| DOM | State | DOM_NC |
| DOM | State | DOM_VA |
| DPL | State | DPL_DE |
| DPL | State | DPL_MD |
| DPL | State | DPL_VA |
| PEPCO | State | PEPCO_DC |
| PEPCO | State | PEPCO_MD |
| APS | Zipcode | APS_East |
| METED | Zipcode | METED_East |
| PENELEC | Zipcode | PENELEC_East |
| PPL | Zipcode | PPL_East |
| DPL | LDA | DPL_South |
| PSEG | LDA | PSEG_North |

Zones that are not expected to have subzones

- Any zone or subzone may be called by lead time.
- Zones that have sub-zones may be called at zone or sub-zone level.
  - Will not dispatch "Rest of" area.

Zones that have predefined subzones

- Sub-zonal dispatch communication same as zonal dispatch
  – ALL CALL (primary mechanism)
  – eDATA emergency messages
  – eLRS
    - Event message
    - Email (based on user preference)
  – PJM intends to contact CSPs in advance to assess operational capability to help with dispatch process.

- Number of events used to determine event multiplier based on number of events the registration has been dispatched
  - PEPCO DC dispatched twice
  - PEPCO zone dispatched once
  - 33% for PEPCO DC registrations (since they were actually dispatched 3 times) and 50% for non DC PEPCO resources (since they were actually only dispatched once and need to take min of 50% or 1/# events)
- Sub-zonal commitment based on registrations that were dispatched:
  - ILR = nominated capacity of registrations dispatched
  - DR = DR commitment * (nominated value of DR registrations dispatched/Total nominated value of DR registrations in zone).
  - CSP may not use other zonal registrations to substitute sub-zonal registrations that are dispatched.
  - Registrations dispatched based information submitted by CSP for location in eLRS.
    - PJM will use zip codes in eLRS just prior to event to determine exactly which registrations are required to respond.

- If registrations not dispatched then still required to perform annual test.
  - For example in 2010:
    - APS (WV, VA and MD) dispatched and therefore not required to Test
    - APS (PA) NOT dispatched and therefore required to Test
      - If test already conducted it is not necessary for CSP to submit the results.
- Sub-zonal commitment based on registrations that were NOT dispatched:
  - ILR = nominated capacity of registrations NOT dispatched
  - DR = DR commitment * (nominated value of DR registrations NOT dispatched/Total nominated value of DR registrations in zone).
  - CSP may not use other zonal registrations that were dispatched to substitute registrations that are required to test.

- PJM will make necessary information available to CSPs to fully understand determination of any penalties:
  - Event multipliers
  - Sub-zonal commitment (this is based on simple proration previously described)
  - Determine if feasible to get report included into MSRS