Emergency Energy settlements process for January 7, 8, 22, 23 and 24 2014
Load Management Events
February, 2014
PJM dispatched Emergency DR resources 7 times in 5 days in January which involved unique dispatch scenarios:

- DR dispatched outside product availability window:
  - Compliance is not measured but registration that respond are eligible for energy payment
- Dispatch in Winter in early am for morning ramp
- Dispatch same registration at two different times in one day
- Dispatch resources and then cancel prior to full deployment
- RTO wide dispatch
- Zonal dispatch
Emergency DR deployed

- Dispatch 1:
  - NotificationTime = 0430, StartTime = 0530 (short), 0630 (long)
  - EndTime = 11:00
- Dispatch 2:
  - NotificationTime = 1500, StartTime = 1600 (short), 1700 (long)
  - EndTime = 18:16

Settlements will be created for all potential settlement hours

- CSP should determine which registration responded to PJM emergency dispatch instructions with load reduction
- CSP must deselect all settlement hours where registration did not respond (PJM automatically has all hours selected and ready to be settled)
  - CSP may not settle HE 12 through HE15 (no emergency dispatch) – these hours must stay deselected.
  - CSP must have contiguous hours for each dispatch period.
- CSP should not simply settle hours where registrations has positive value, CSP should have reasonable expectation that registration reduced load (CSP contacted customers and believes they were able to respond).

Zones: RTO
• Emergency DR deployed
  – Dispatch 1:
    • Notification Time = 0500, Start Time = 0600 (short), 0700 (long)
    • End Time = 07:00
• PJM will allow CSP to settle during notification period and for HE8 (long and short lead) and HE9 (long lead) in case registration had to stay down for 2 hour minimum.
• Settlements will be created for all potential settlement hours
• CSP must determine which registration actually responded to PJM emergency dispatch instructions with load reduction
• CSP must select all settlement hours where registration did not respond (PJM will have no hours automatically selected)
  – CSP must have contiguous hours for settlement
• CSP should not simply settle hours where registrations has positive value, CSP should have reasonable expectation that registration reduced load (CSP contacted customers and believes they were able to respond).
• Zones: RTO
• Emergency DR deployed
  – Dispatch1:
    • NotificationTime = 1400, StartTime = 1500 (short), 1600 (long)
    • EndTime = 21:00
• Settlements will be created for all potential settlement hours
• CSP must determine which registration actually responded to PJM emergency dispatch instructions with load reduction
• CSP must de-select all settlement hours where registration did not respond (PJM will have all hours automatically selected)
  – CSP must have contiguous hours for settlement
• CSP should not simply settle hours where registrations has positive value, CSP should have reasonable expectation that registration reduced load (CSP contacted customers and believes they were able to respond).
• Zones: BGE, PEPCO
• Emergency DR deployed
  – Dispatch1:
    • NotificationTime = 0430, StartTime = 0530 (short), 0630 (long)
    • EndTime = 08:30
  – Dispatch2:
    • NotificationTime = 1400, StartTime = 1500 (short), 1600 (long)
    • EndTime = 19:00
• Settlements will be created for all potential settlement hours
• CSP should determine which registration responded to PJM emergency dispatch instructions with load reduction
• CSP must deselect all settlement hours where registration did not respond (PJM automatically has all potential valid hours selected and ready to be settled)
  – CSP may not settle HE 10 through HE14 (no emergency dispatch) – these hours must stay deselected.
  – CSP must have contiguous hours for each dispatch period.
• CSP should not simply settle hours where registrations has positive value, CSP should have reasonable expectation that registration reduced load (CSP contacted customers and believes they were able to respond).
• Zones: Mid-Atlantic, DOM and APS

Emergency energy settlement process different than normal process because resources dispatched outside availability period
• Emergency DR deployed
  – Dispatch 1:
    • Notification Time = 0430, Start Time = 0530 (short), 0630 (long)
    • End Time = 08:45
• Settlements will be created for all potential settlement hours
• CSP must determine which registration actually responded to PJM emergency dispatch instructions with load reduction
• CSP must de-select all settlement hours where registration did not respond (PJM will have all hours automatically selected)
  – CSP must have contiguous hours for settlement
• CSP should not simply settle hours where registrations has positive value, CSP should have reasonable expectation that registration reduced load (CSP contacted customers and believes they were able to respond).
• Zones: Mid-Atlantic, DOM and APS
Q: What baseline methodology is used to determine emergency energy load reduction:
A: If locations are on Economic registration than Economic CBL is used. If not then hour before methodology is used.

Q: If there are 2 emergency events in one day, which hour will PJM use for “hour before” CBL method?
A: PJM will use the hour preceding the earliest load reduction of that day as the “hour before” for the entire day. If resource did not respond to all morning event hours then CSP can deselect and hour before will be based on when CSP actually reduced load in afternoon.

Q: What if the hour before method is not accurate?
A: An economic CBL may be used for an emergency registration. In order to do this, a resource must have a confirmed economic registration for the same location before the CBL is calculated for the emergency energy settlement (note the economic registration may be created after the emergency event, as long as it is confirmed before the CBL is calculated on the emergency settlement). This allows CSP some time to get an economic registration approved after the emergency event so it can be used for the emergency energy settlement.

Q: If there are 2 emergency events in one day, and a resource can only respond to one event, can it still receive an energy settlement for only one of the events?
A: Yes. CSP will need to deselect hours in eLRS for the event that registration was unable to respond prior to calculation of emergency energy CBL calculation for the settlement.

Q: If a resource responds late to an emergency event, can it choose which hours to settle?
A: Yes, as long as there are contiguous hours for settlement period.
• Advanced Warning emails
  – Sent to users with “User Interest” in eLRS Org and Users other than “None”.
• eLRS notifications (emails and webservice) – one for all zones vs one for each zone, if PJM expects to need different End time then PJM will create separate notification for each zone, otherwise PJM will set up as one dispatch.
  – Email also go to email address on each location – if you have your email address in multiple places you will receive multiple emails.
  – CSPs should use electronic notification to dispatch customers
• CSP Expected Real Time Energy Load Reductions
  – Used by PJM as best estimate of what will occur to determine dispatch decision and for price formation (is load reduction marginal?)
• Energy Settlements (cost to LSE and revenue to CSP) will be included on March invoice issued in early April unless there are significant number of data quality issues (then it will go on April invoice issued in May)

• Settlements must be submitted by the following dates to receive payment:
  – 1/7/14 event: 11:59pm on 3/8/14
  – 1/8/14 event: 11:59pm on 3/9/14
  – 1/22/14 event: 11:59pm on 3/23/14
  – 1/23/14 event: 11:59pm on 3/24/14
  – 1/24/14 event: 11:59pm on 3/25/14

  • If you withdraw after 60 days you should not resubmit the settlement.

• Make sure you submit (NOT just save) the settlement

• If you check or uncheck hour, you must recalculate CBL and save and then resubmit.

• PJM will not measure capacity compliance – please ignore capacity compliance records in eLRS.

• Emergency Energy purchase does not involve Demand Response

• Emergency Energy Settlement detailed training material located at (starts on page 114-119):

• Historic list of Load Management Events (date/time/location)
  – http://www.pjm.com/~media/planning/res-adeq/load-forecast/alm-history.ashx

• Cold Weather Report