Follow-up Items for Load Management Testing

Demand Response Subcommittee
May 28, 2019
Hourly Reduction Analysis – Past LM Events
• CSP level hourly reduction analysis of several past LM events
• Displaying normalized hourly reduction values for each hour of the event
  – Where average reduction was at least 1 MW
• September 11, 2013
• July 18, 2013
13SEP2013 AEP

Hourly % of Mean Reduction

Hour 1
Hour 2
Hour 3
Hour 4
Hour 5

CSP1 CSP2 CSP3 CSP4 CSP5 CSP6 CSP7 CSP8 CSP9 CSP10 CSP11 CSP12 CSP13 CSP14
13SEP2013 ATSI
Test Commitment after Subzone Event
Subzone Test Commitment Example

RPM Resource 101,
DOM Zone
10 MW Commitment

Registration 1
NomICAP = 5MW
Prorated Commitment = 2.5MW
(i.e. 10MW * 5/20)

Registration 2
NomICAP = 3MW
Prorated Commitment = 1.5MW

Registration 3
NomICAP = 4MW
Prorated Commitment = 2MW

Registration 4
NomICAP = 4MW
Prorated Commitment = 2MW

Registration 5
NomICAP = 2MW
Prorated Commitment = 1MW

Registration 6
NomICAP = 2MW
Prorated Commitment = 1MW

These two are in the DOM_CHES Subzone and where called on for a SZ event. Commitment for event is 4 MW. No subject to test.

These four are not in the DOM_CHES subzone, where not called for an LM event and are required to test. Commitment for test is 6 MW.
Load Management Event Energy Settlement

- Apply existing rules - Use CBL assigned to Load Management registration
  - use default CBL (3 daytype, high 4 of 5 with SAA) unless approved for alternative CBL or have existing Economic Registration (then use Economic CBL)
- Apply existing settlement rules but do not pay make whole payment for offer price and shutdown cost
  - (CBL – Load) * Line Loss Factor * LMP
  - \((1 - 0.5) \times 1.1 = .55 \text{ MW} \times \$100 = \$55\)
- Allocate cost based on existing Economic DR rules
  - Market Participant with real-time exports
    - ratio-share basis based on their real-time exports
  - LSEs
    - ratio-share basis based on their real-time loads in the zone