

Proposed (Manual Language) for Alternative CBLs for Variable Load

1) Same Day (3 + 2) CBL

a) Requirements

- i) CSP will ensure there is no significant pre-event or post-event change in operations during the operating day that will impact the hours selected for the CBL. If the load will be shifted to one of the 3 + 2 hours and therefore artificially increase the CBL, the CSP may not use this CBL for such resource. For example, resources that have thermal load that will be controlled (pre-cooling or post event snap back) or shift their production cycle such that will increase load above what would have normally occurred during the CBL may not use the 3+2 CBL.

b) Calculation:

- i) Skip hour before event and use 3 hours before event
- ii) Skip hour after event and take next full 2 hours after event
- iii) Average of 5 hours is CBL for each hour during the event
- iv) If there are multiple non-contiguous events during same day PJM will use earliest 3 hours and last 2 hours from same day. Use hours available on the operating day to calculate the CBL, where the minimum of 3 hours will be used.

- (1) Resource will not have event (make unavailable in RT or do not offer in DA market) in HE1, HE2, HE3, HE23 and HE24 to ensure there are at least 3 hours in operating day to calculate the CBL.

2) Match Day (3 day average)

a) Requirements

- i) First event hour to last event hour in operating day will comprise no more than 10 elapsed hours. This will ensure there are at least 12 non-event hours in the operating day to determine the selection of CBL days.

b) Calculation

- i) Determine event day non-event hours or "comparison hours". Comparison hours are all hours in operating day except for the hour before the earliest event hour through the hour after the last event hour. For example, if economic DR resource is dispatch HE12 – HE14 and then re-dispatched in HE17-HE20 the comparison hours are HE1- HE10 and HE22-HE24 (13 comparison hours in total).
- ii) CBL Basis Day limit is 45 days where prior event days are excluded from the CBL selection process
- iii) Compute the difference between the event day and day within the CBL Basis Day limit. For each day:

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- (1) Take the difference between each comparison hour from the event day and the same hour in each day in the CBL Basis Day Limit to determine the hourly difference for each comparison hour for each day.
- (2) Square all the hourly differences for each day and then sum the squared differences to determine the daily differences.
- (3) Select the 3 days from the CBL Basis Day Limit with the smallest daily differences to determine the CBL Days.
- (4) Average each of the event hours across the three CBL Days to determine the CBL