EIM BPM



### Resource Sufficiency Evaluation

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* **Discount CAISO Interchange Awards that have not submitted Transmission Profile e-Tag:** System shall discount any interchange (import/export) awarded bids that have not submitted a transmission profile e-Tag equal to their HASP award by the T-40’ deadline for Capacity Test and Flexible Ramping Sufficiency Test. The objective of this feature is ensure import and export capacity has procured sufficient transmission to deliver or receive the award. The Capacity and Flexible Ramping Sufficiency tests are configured to execute after receipt of the latest awarded interchange data.

For each BAA in the WEIM Area that fails its Flexible Ramping Up or Flexible Ramping Down sufficiency test or the Bid Range Capacity Up or Down test, for a 15-minute interval in the next trading hour, the market shall limit the net WEIM transfer from below (import) for upward failure and from above (export) for downward failure, to the less-restrictive of the following values:

* Base Transfer Schedule for the failed 15-minute interval; or
* Net WEIM transfer schedule for the interval prior to the failed 15-minute interval as provided by the last successful FMM market run (i.e. the “last previous” 15-minute interval)

The following rules will be applied to the 15-minute interval for all the bid-range capacity and flexible ramping sufficiency test;

* At T-75, RUC schedules plus all available bids for system resources are used for assessing CAISO BAA. For the sufficiency test performed at T-55 and T-40, the latest FMM results are used for assessing CAISO BAA.
* The same WEIM transfer limit applied to the failed 15-minute interval shall also apply to its three corresponding 5-minute market intervals
* If a FMM run, other than HASP, fails, the WEIM Transfer schedules from the last FMM run that has succeeded shall be used to derive the WEIM Transfer limits for the 15-minute intervals
* If HASP or all prior FMM runs fail, the base WEIM Transfer will be used.
* The last previous 15-minute interval will be the last 15-minute interval of the current hour if the 15-minute interval that fails is the first 15-minute interval of the next hour
* Likewise, the same is true if the 15-min interval that fails is the second, third, or fourth 15-minute interval in the second hour of the HASP time horizon for which there is no previous solution for the immediately prior 15-minute interval

Examples:

This example shows how the WEIM transfer limit will be curtailed for the 15-minute intervals and associated 5-minute intervals with failed FRU/FRD sufficiency test.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Market Run** | | | **15-min Interval** | | | | |
| **Market** | **Run Time** | **Result** | **0 (*T*–7.5')** | **1 (*T*+7.5')** | **2 (*T*+22.5')** | **3 (*T*+37.5')** | **4 (*T*+52.5')** |
| FMM | *T*–82.5' | EIM Transfer (MW) | –200 |  |  |  |  |
| **RTBS** | ***T*–75'** | Base Transfer (MW) |  | –300 | –300 | –300 | –300 |
| FRU Test |  | **Pass** | **Pass** | **Fail** | **Fail** |
| FMM | *T*–67.5' | Transfer Limit (MW) |  |  |  | **–300** | **–300** |
| EIM Transfer (MW) |  | –400 | –320 | –210 | –300 |
| **RTBS** | ***T*–55'** | Base Transfer (MW) |  | –100 | –100 | –100 | –100 |
| FRU Test |  | **Fail** | **Pass** | **Fail** | **Fail** |
| FMM | *T*–52.5' | Transfer Limit (MW) |  | **–200** |  | **–320** | **–210** |
| EIM Transfer (MW) |  | –200 | –270 | –180 | –210 |
| **RTBS** | ***T*–40'** | Base Transfer (MW) |  | –250 | –250 | –250 |  |
| FRU Test |  | **Fail** | **Pass** | **Fail** | **Fail** |
| FMM | *T*–37.5' | Transfer Limit (MW) |  | **–250** |  | **–270** | **–250** |
| EIM Transfer (MW) |  | –230 | –350 | –270 | –250 |
| FMM | *T*–22.5' | Transfer Limit (MW) |  | **–250** |  | **–350** | **–270** |
| EIM Transfer (MW) |  | –240 | –330 | –300 | –270 |
| FMM | *T*–7.5' | Transfer Limit (MW) |  |  |  | **–330** | **–300** |
| EIM Transfer (MW) |  |  | –280 | –330 | –300 |
| FMM | *T*+7.5' | Transfer Limit (MW) |  |  |  | **–280** | **–330** |
| EIM Transfer (MW) |  |  |  | –260 | –330 |
| FMM | *T*+22.5' | Transfer Limit (MW) |  |  |  |  | **–260** |
| EIM Transfer (MW) |  |  |  |  | –260 |