

## IMS Scenario Preliminary Report Scenario # 25c

### Scenario

Number	Market	Trading Date	Report Date
25c	DA	9/24/08	10/06/08

### Scenario Description

Verify market LMPs at inter-tie point where self-schedules and bids exceed inter-tie capability. In particular, derate PALOVRDE\_ITC to 25% of its corresponding ITC limit.

### Required Setup

#### CAISO:

- Using the ETCC Calculator, derate the following inter-tie to 25% of its original ITC limit for the scenario Trading Day:
  - PALOVRDE\_ITC
- In IFM make sure that ETCC payload has the derated inter-tie limit values by checking the inter-tie limit display.
- Mark all exports on the selected derated inter-ties as non-participating, if needed to enforce import limits.
- Execute MPM/IFM/RUC
- Publish to OASIS

#### MP:

- Submit full contracted capacity, energy self-schedules, and additional economic bids at identified inter-ties to ensure overload of the line. The inter-ties are:
  - PALOVRDE\_ITC
- No export bids on this tie should be submitted for the test trading day.

### Expected Results

- Verify the derated ITC is binding
- Verify that Shadow Prices on the inter-tie constraint reflect the congestion of the corresponding inter-tie at the correct derated time intervals.
- Verify the congestion cost of the LMP at the inter-tie point are non-zero for the corresponding congested inter-tie.

### CAISO Observed Results

CAISO's initial observations about the results of this scenario indicate the following:

1. In order to see the effect of this scenario on curtailment of SS of different priorities, CAISO changed self-schedule Wheel associated with TOR for an SC to have TOR priority flag set to "Y" for entire time horizon. Original data showed that it had priority for other hours except the derated ones.
2. CASO ignored the block transaction Flag for any bid that has a block size=60min. This was necessary to allow both CAISO and MPs the chance to validate other features like curtailment and pro-rata that is impacted by this unnecessary designation of bids as being block transactions whereas the block size=1hour which is equal to the interval length of IFM application.
3. PALOVRDE\_ITC is binding during the derated hours @ derated MW import limit = 832MW with shadow costs in the range of - \$464/MWh.
4. Import resources bidding on PALEVERDO\_ITC (PVWEST) outside CAISO have negative congestion cost component as expected due to the excess Self-Schedules on derated PALOVRDE\_ITC.



5. Exports bids were observed to increase to help create counter schedules to the imports from PALOVRDE\_ITC (refer to CRLP, PWRX, CPSC, and PCPM exports on PALOVRDE\_ITC).
6. Initial observation and analysis indicate that pro-rata curtailment was done correctly among similar situation bids on inter-tie (refer to import bids on PALOVRDE\_ITC at HE14). Note: Dynamic schedules are not considered similarly situated as a static hourly schedule as they have ramping constraints, and possibly ancillary service. CAISO is considering if dynamics without any Ancillary Service or other inter-temporal constraints should be considered similarly situated.
7. Import bid with self-schedule of valid TOR priority at HE14 was not curtailed due to its priority.
8. It was also observed that block transactions with block size greater than 60 minutes are excluded from the post optimization pro-rata treatment as they are not similarly situated with static schedules.

The initial observations and analysis of results indicate that the objectives of the above scenario are obtained.

### MP Reported Issues