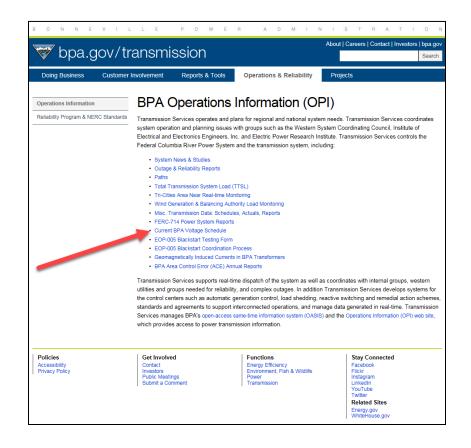# Joint Operating Committee February 21st, 2019
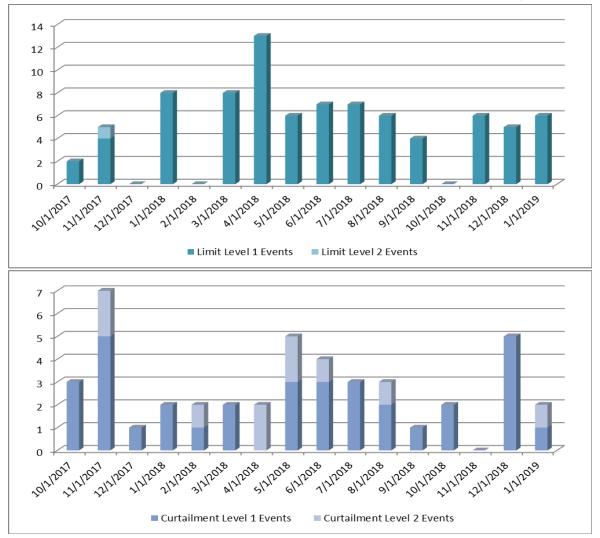
Frank Puyleart

BPA Voltage Control

- All current Voltage Schedules for BPA are found under the "Current BPA Voltage Schedule" link here:

https://www.bpa.gov/transmission/OperationsReliability/Pages/OperationsInformation.aspx

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OCBR Events for FY18 through Jan 19

OCBR Curtailment Reminder

- OCBR Curtailments apply to all non-Federal Scheduled generation in the BAA

- OCBR Curtailments occur during severe under-generation and/or load over-consumption events.

- Unlike Transmission Curtailments, Generators should **NOT** reduce generation for an OCBR Curtailment.
  - Reducing Generation for OCBR Curtailments could cause reliability concerns and deeper OCBR Curtailments for that Generator.

OCBR Changes

- BPA presented at the May 2015 JOC with changes forthcoming to Operating Controls for Balancing Reserves (OCBR)

- Two of those changes are planned to be implemented in 2019:
  - OCBR In-Effect Periods are being extended
  - OCBR Blackout Periods are being removed

- An email notice from Tech Forum will be sent prior to the implementation of these changes.

OCBR Changes

In-Effect Periods

- The length of time in which the system remains in OCBR event level.

- If a prior level is in effect, the next level can be reached during this time

- Currently:
  - Both Curtailments and Limitations are in effect for the remainder of the hour
  - During Limitations, the OCBR State Flag resets to Normal at the top of the hour
  - During Curtailments, the OCBR State Flag resets to Normal at 10 minutes prior to the top of the hour.

OCBR Changes

In-Effect Periods, continued

- New In-Effect Periods when Events are implemented at:
  - ➢ xx:00 – xx:49:59
    - Limitations remain in-effect until to the top of current hour (1 hour max)
    - Curtailments apply to eTags currently in-effect and until to the top of current hour (1 hour max)
      - Reliability Limit placed on the current hour's eTags, not allowing adjustments above the Reliability Limit
    - Next higher Level can be reached anytime until the top of the current hour (1 hour max).

OCBR Changes

In-Effect Periods, continued

- New In-Effect Periods when Events are implemented at:
  - ➤ xx:50 – xx:59:59
    - Limitations remain in-effect until to the top of next hour (1 hour 10 min max)
    - Curtailments apply to current interval and to eTags in-effect for the next hour (1 hour 10 min max)
      - Reliability Limit placed on the current and next hour's eTags, not allowing adjustments above the Reliability Limit
    - Next higher Level can be reached anytime until the top of the next hour (1 hour 10 min max).

OCBR Changes

Blackout Periods

- Currently during the defined blackout periods, OCBR events are not implemented.

  – Limitations are not implemented between 10 minutes prior to the top of the hour and the top of the hour.

  – Curtailments are not implemented between 15 minutes prior to the top of the hour and the top of the hour.

OCBR Changes

Blackout Periods, continued

- Blackout Periods are being removed.

- After implementation of these changes in 2019:
  - Limitation Events with the new In-Effect Period can carry forward beyond the top of the current hour.
  - Curtailment Events with the new In-Effect Period can provide relief beyond the top of the current hour.

OCBR Changes

Summary of changes for 2019

- In-Effect Periods are implemented at:
  - ➢ xx:00 – xx:49:59 to the top of current hour (1 hour max)
  - ➢ xx:50 – xx:59:59 to the top of the next hour (1hr. 10 min. max)
  - ➢ If a prior level is in effect, the next level can be reached.

- Blackout Periods will be removed