

Joint Operating Committee February 21st, 2019

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BPA Voltage Control

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



The screenshot shows the BPA Operations Information (OPI) page. The page title is "BPA Operations Information (OPI)". The main content area contains a list of links, with a red arrow pointing to "Current BPA Voltage Schedule".

Operations Information

Reliability Program & NERC Standards

Transmission Services operates and plans for regional and national system needs. Transmission Services coordinates system operation and planning issues with groups such as the Western System Coordinating Council, Institute of Electrical and Electronics Engineers, Inc. and Electric Power Research Institute. Transmission Services controls the Federal Columbia River Power System and the transmission system, including:

- System News & Studies
- Outage & Reliability Reports
- Paths
- Total Transmission System Load (TTSL)
- Tri-Cities Area Near Real-time Monitoring
- Wind Generation & Balancing Authority Load Monitoring
- Misc. Transmission Data: Schedules, Actuals, Reports
- FERC-714 Power System Reports
- **Current BPA Voltage Schedule**
- EOP-005 Blackstart Testing Form
- EOP-005 Blackstart Coordination Process
- Geomagnetically Induced Currents in BPA Transformers
- BPA Area Control Error (ACE) Annual Reports

Transmission Services supports real-time dispatch of the system as well as coordinates with internal groups, western utilities and groups needed for reliability, and complex outages. In addition Transmission Services develops systems for the control centers such as automatic generation control, load shedding, reactive switching and remedial action schemes, standards and agreements to support interconnected operations, and manage data generated in real-time. Transmission Services manages BPA's open-access same-time information system (OASIS) and the Operations Information (OPI) web site, which provides access to power transmission information.

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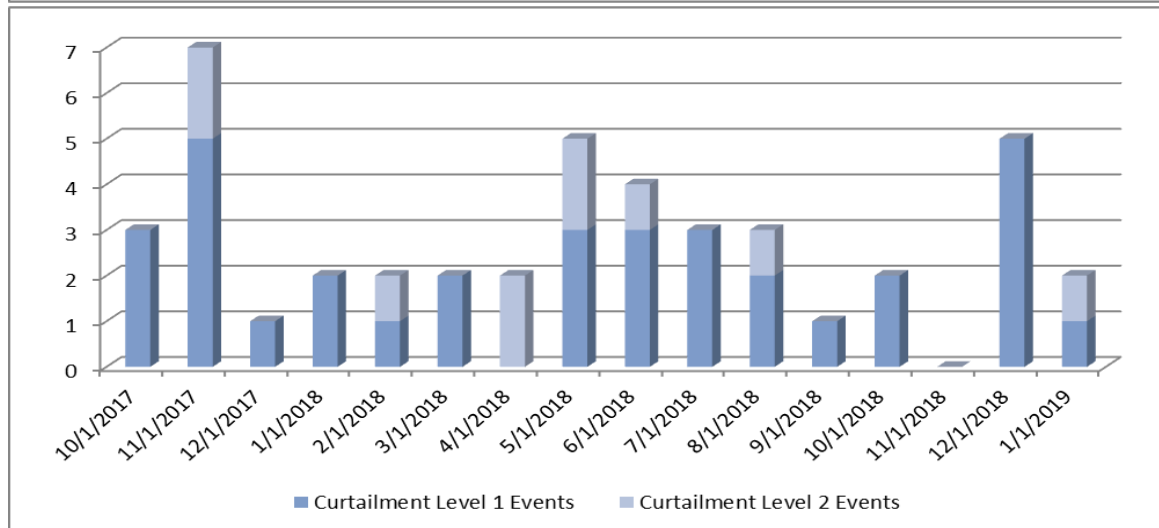
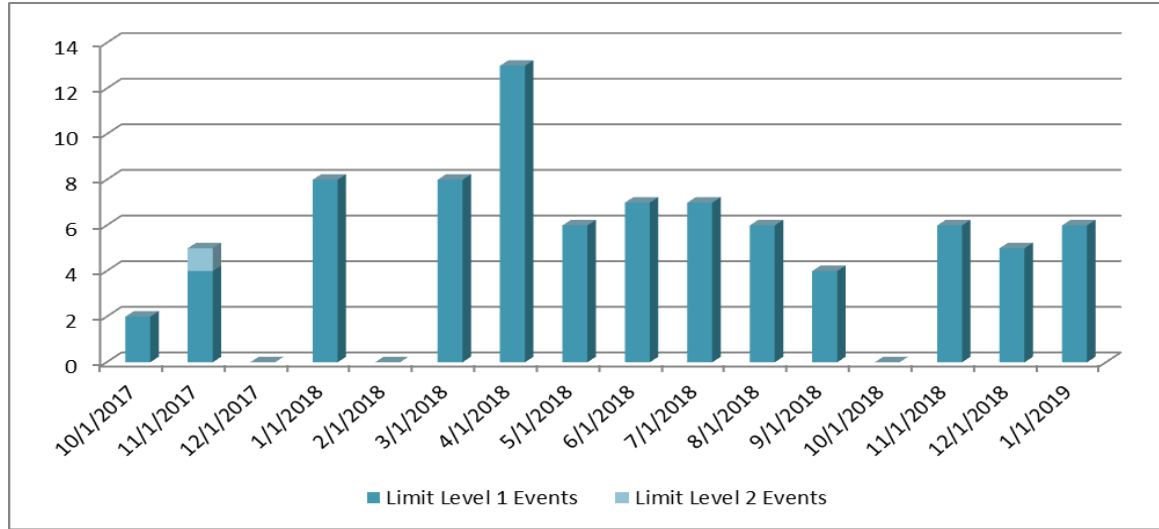
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<https://www.bpa.gov/transmission/OperationsReliability/Pages/OperationsInformation.aspx>

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