

Redispatch and Curtailment Procedures

Version 11

Effective: 04/26/2016

This Business Practice describes the Redispatch and Curtailment Procedures used to mitigate transmission system overloads and other reliability-related problems.

Table of Contents

- A. General Requirements & Procedures
- B. Redispatch Procedures
- C. Curtailment Procedures
- D. Circulation Procedure for the California Oregon Intertie (COI) and the Pacific DC Intertie

OATT Reference: [Sections 13.6; 14.7; 33; Attachment M](#)

[Bilateral Redispatch for Congestion Management is a program in which BPA establishes agreements with third parties for INC and DEC resources for the purpose of providing flow relief.]

A. General Requirements & Procedures

1. Curtailment or Redispatch orders are initiated by BPA Transmission Services when:
 - a. Power flows are nearing or exceeding the established System Operating Limit (SOL) for a Managed Path (within-interval curtailment);
 - b. The forecasted flows or total schedules exceed the SOL for a Managed Path for future intervals (future-interval curtailment); or
 - c. BPA Transmission Services determines that an emergency or unforeseen condition impairs or degrades, or threatens to impair or degrade, the reliability of the transmission system.
2. BPA will curtail on a forecast basis approximately 15 minutes prior to the start of each interval and will curtail only the intervals for which the e-Tag scheduling window has closed (i.e., 20 minutes prior to the start time of the interval).
3. BPA Transmission Services uses the following methods to reduce flow:
 - a. Switching actions (impedance changes) as defined in the relevant Dispatcher Standing Order (DSO).
 - b. Bilateral Redispatch for Congestion Management
 - c. Discretionary Redispatch pursuant to Attachment M of the OATT may be requested from BPA Power Services (BPA-PS).
 - d. Curtailment Calculator, which determines e-Tag reductions for Managed Paths according to NERC curtailment priority and may include Redispatch for Network Loads. Such Redispatch includes NT Firm Redispatch pursuant to Attachment M of the OATT, and may include Redispatch requested from Network Customers to effectively relieve congestion on the Managed Path.
 - e. Emergency Redispatch from BPA-PS pursuant to Attachment M of the OATT.

4. Generating facilities that are unable to modify operation due to a *force majeure* when given a Reliability Order must immediately notify BPA Transmission Services' Dispatch by phone.
5. All generating facilities interconnected to or taking transmission service from BPA Transmission Services are subject to the **Failure to Comply Penalty**¹.

B. Bilateral Redispatch for Congestion Management

1. A customer must have an executed bilateral agreement with BPA to supply Bilateral Redispatch for Congestion Management.
2. Requests to deploy Bilateral Redispatch for Congestion Management will be issued by BPA Transmission Services.
3. Schedules associated with Bilateral Redispatch for Congestion Management are to be submitted in accordance with section J of the Scheduling Transmission Service Business Practice.

C. Redispatch Procedures under Attachment M

1. BPA Transmission Services can request Redispatch, pursuant to Attachment M of BPA's Tariff, prior to Curtailment of any firm or non-firm e-Tags to avoid the Curtailment. This can include Discretionary Redispatch or Redispatch from resources other than the federal hydro system. Redispatch will be requested by a phone call from BPA Transmission Services' Dispatcher (Dispatcher).
2. In all cases, the generation estimate used for Generation Imbalance calculations will be adjusted by BPA to reflect the Redispatch Order.
3. Redispatch will not result in changes to the original e-Tags.
4. There are currently three types of Redispatch under Attachment M of the OATT:
 - a. Discretionary Redispatch
 - i. BPA Transmission Services may request Redispatch from BPA-PS prior to curtailing any firm or non-firm PTP e-Tags or secondary NT e-Tags in order to avoid or reduce Curtailments.
 - ii. The Dispatcher will request Discretionary Redispatch from BPA-PS by phone call.
 - iii. BPA-PS may decline to provide Discretionary Redispatch.
 - b. NT Firm Redispatch
 - i. BPA Transmission Services can order NT Firm Redispatch from BPA-PS to avoid or reduce Curtailment of firm NT e-Tags. This would happen only after BPA Transmission Services has curtailed non-firm PTP e-Tags and secondary NT e-Tags in a sequence consistent with the NERC Curtailment priority.
 - ii. The Dispatcher will order NT Firm Redispatch from BPA-PS by phone call specifying that the purpose is for NT Firm Redispatch. BPA-PS must provide NT Firm Redispatch to the extent that it can do so without violating non-power constraints.
 - c. Emergency Redispatch
 - i. BPA Transmission Services can call on Emergency Redispatch from BPA-PS when it declares a transmission system emergency. BPA-PS must provide Emergency Redispatch.

¹ The consequences of non-compliance are defined in the Failure to Comply Business Practice in effect at that time.

C. Curtailment Procedures

1. In addition to BPA Transmission Services' Redispatch Order, Customers must follow any subsequent Reliability Orders, such as Curtailments.
2. BPA Transmission Services will communicate Curtailments via the e-Tag.
 - a. BPA Transmission Services will use the Curtailment Calculator to determine which e-Tags will be curtailed for all Managed Paths. For Managed Paths within the BPA network, e-Tags with impacts greater than 10% on the Managed Path will be considered for Curtailment.
 - b. The generator indicated on the e-Tag must modify its operations appropriately.
 - c. For generating facilities that do not monitor e-Tags, the Purchasing Selling Entity (PSE) listed on the e-Tag is responsible to inform the generator of the necessary actions to take.
 - d. For within-interval Curtailments, generating facilities must move to the new schedule within 10 minutes following the e-Tag Curtailment. For future-interval Curtailments, generating facilities must move to the new schedule during the normal ramp for the affected interval.
 - e. Load Serving Entities (LSE) must re-supply generation or shed load in response to curtailed e-Tags.
3. E-Tag Curtailments initiated by other Reliability Entities and approved by BPA Transmission Services are Reliability Orders to generating facilities, loads and Customers within the BPA Balancing Authority Area.
4. BPA Transmission Services will curtail schedules pro-rata according to NERC Curtailment priority.
5. For all Curtailments, BPA Transmission Services will curtail 7-F schedules and order generating facilities that have an obligation to Redispatch at the request of BPA Transmission Services under Attachment M of the OATT to provide NT Firm Redispatch on a pro-rata basis if the overload persists. BPA Transmission Services will curtail 7-F in proportion to the 7-F flow on the affected Managed Path and request NT Firm Redispatch in proportion to the 7-FN and unscheduled firm NT flow on the affected Managed Path.
6. If a generator within the BPA Balancing Authority Area is operating at its minimum generation level within the interval, and e-Tag Curtailments occur within that interval, the generator shall move completely offline, even if the Curtailment is relatively small in proportion to the generation for that interval.
7. A generator that does not respond appropriately to a Curtailment is subject to a **Failure to Comply**² Penalty.
8. A generator that has received Operating Reserves from BPA Transmission Services but has not recovered sufficient generation to meet schedules following the expiration of the reserves must reduce e-Tags or re-supply the schedules for the succeeding intervals. If the generator or PSE is unable to reduce or re-supply schedules to match the reported generation estimate, BPA Transmission Services will, at Customer request, curtail e-Tags to match the reported generation estimate.
9. System emergencies or other unforeseen conditions may require Dispatchers to deviate from the pro-rata Curtailment principles in order to maintain reliability.

² The consequences of non-compliance are defined in the Failure to Comply Business Practice in effect at that time.

- a. In those circumstances, BPA Transmission Services will coordinate schedule changes or generation changes as necessary in order to maintain system reliability (situation specific).
- b. Such non-pro-rata Curtailments should last no more than two hours after the start of the event. If necessary, pro-rata Curtailments will be used beyond that time.

D. Circulation Procedure for the California Oregon Intertie (COI) and the Pacific DC Intertie (PDCI)

1. When power flows on the COI are nearing or exceeding SOL, BPA Transmission Services and the California Independent System Operator (CAISO), Los Angeles Department of Water and Power (LADWP) and WECC Reliability Coordinator (RC) may arrange to circulate power on the PDCI to lower power flows on the COI. Customers and/or other firm transmission rights holders will not be notified of circulation.
 - a. BPA Transmission Services and CAISO will not curtail any e-Tags if the circulation reduces flows on the COI below SOL.
 - b. In the event that circulation is not available (or not effective) and power flows remain above SOL limits on the COI, Curtailments will occur.
2. When power flows on the PDCI are nearing or exceeding SOL, BPA Transmission Services and the California Independent System Operator (CAISO), Los Angeles Department of Water and Power (LADWP) and WECC Reliability Coordinator (RC) may arrange to circulate power on the COI to lower power flows on the PDCI. Customers and/or other firm transmission rights holders will not be notified of circulation.
 - a. BPA Transmission Services and LADWP will not curtail any e-Tags if the circulation reduces flows on the PDCI below SOL.
 - b. In the event that circulation is not available (or not effective) and power flows remain above SOL limits on the PDCI, Curtailments will occur.
 - c. If the power flows are in a north to south direction, LADWP will initiate the Curtailments.
 - d. If the power flows are in a south to north direction, BPA Transmission Services will initiate the Curtailments.