



Bonneville Power Administration

TOPIC

Transmission Operator Integrated Compendium

Processes and Guidelines

Version 12.0

Prepared by the BPA CSRP Team

Effective:

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BACKGROUND

The Transmission Operator Integrated Compendium (TOPIC) is a collection of documents, processes and procedures, explanations, and other material to provide guidance for implementing and sustaining Transmission Operator (TOP) Services. The development of the TOPIC is intended to be collaborative and transparent between Bonneville Power Administration (BPA) and Customers to ensure successful implementation of the service.

PURPOSE

The Transmission Operator Integrated Compendium documents procedures necessary in order to provide BPA with the ability to carry out its TOP responsibilities as they relate to Customers' Bulk Electric System (BES) equipment. These TOP procedures are required to allow BPA to implement TOP authority over BES equipment and demonstrate compliance with certain mandatory Reliability Standards and requirements. The procedures are mandatory for BPA and TOP Services Customers. These procedures contain, but are not limited to, actions which must be taken by the Customer prior to changing the status of or taking actions that could impact the control or protection of the BES transmission system associated with transmission lines owned by the Customer; orders, instructions, and other requests BPA may issue, and Customer must follow for BPA to fulfill its TOP obligations.

OUTAGE COORDINATION (IRO-017-1)

General Overview

BPA will coordinate outages of TOP Services Customers covered BES in accordance with IRO-017-1. TOP Services Customers must comply with BPA's Outage Coordination Policy, which details requirements for BES Equipment and other associated equipment including communications and control equipment (see Appendix 1 Section 4 & 5 (Short-Range) of BPA Outage Planning and Coordination Policy for specific equipment and timelines). Emergency outages are covered in the Real Time Operating Procedures section below. For purposes of these procedures, a dispatch center is a facility hosting operating personnel that monitors and controls the transmission system in accordance with a Transmission Operator Services Agreement and under the supervision of Bonneville Power Administration except during an emergency condition.

**Note: For changes to equipment and equipment ratings, please see [Equipment Change Process](#)*

BPA Policy Reference

BPA Outage Coordination Policy:

<https://www.bpa.gov/energy-and-services/transmission/outage-coordination>

General Responsibilities:

1. BPA Outage Offices (Dittmer or Munro) ensure the work requested can be accomplished safely. In addition, they receive and review outage requests, assure that equipment nomenclature is accurate, assess conflicting outages, communicate with outage requestors, and finalize the outage plans. Finally, BPA Outage Offices ensure compliance with IRO-017-1 (Outage Coordination).
2. An Outage Requestor is the Facility Operator who requests an outage to perform planned maintenance, construction, testing, urgent, or emergency work.
3. CSRP will proactively send TOP customers their applicable equipment and associated outage timelines annually and/or when outage windows have been updated in Appendix 1 and 2.

Customers without 24/7 dispatch centers

TOP Services Customers without dispatch centers are expected to coordinate outages with BPA District Personnel, and District Personnel will submit outage requests to BPA Dispatchers/Outage Offices. If the TOP Services Customer worked directly with the BPA Outage Office prior to becoming a TOP Services Customer, continuing to do so is acceptable. Customers can call the Outage Office directly if unable to contact the local district.

Customers with 24/7 dispatch centers

BPA Dispatchers/Outage Offices will coordinate outages with parties having 24-hour dispatch centers. TOP Services Customers with dispatch centers are expected to submit outage requests by providing email notification to the BPA Outage Offices.

5 Month (Long-Range), 2 Month (Mid-Range), 21 Day (Short-Range), 14 Day (Short-Range), and 4 Day Equipment

1. Equipment outages must be scheduled through the BPA Outage Offices using Form 6500.15e and according to the timelines in Appendix 2 of BPA's Outage Coordination Policy.
2. Additions/changes to Equipment in Appendix 2: If BPA determines that equipment must be added to the Equipment List in Appendix 2; BPA will coordinate with the Facility Owner/Operator and allow 21

days until the change will be implemented. BPA will distribute the updated Equipment List to TOP Services Customer contacts identified in the TOP Services contract Exhibit C.

3. 5 Month equipment - 500kV transmission equipment & hard to get outages. This process is recommended but not required for lower voltage equipment.
4. 2 Month equipment – Equipment (when taken out of service) that may impact the BES or require a capacity reduction to assure reliable operation on a constrained path.
 - a. 2 Month equipment outage requests are required to be submitted to BPA 2 Months prior to the month the outage is scheduled to start.
 - b. A constrained path is an intertie or flowgate on which power flow is monitored to ensure reliable operation of the transmission system. Please see Appendix 4 of the Outage Coordination Policy for a map of the Northwest’s current constrained paths.
5. 21 Day equipment – BES equipment outages marked in the equipment list are required to be submitted to BPA 21 days prior to the Outage Week (Monday to Sunday) in which the outage is scheduled to start. This includes outages that may require additional time for Study Engineers to prepare Operating Plans. This includes generation derates of 50MW or greater at the unit or aggregate plant level.
 - a. 21 Day equipment outage requests are required to be submitted no later than 1500 hours Pacific Prevailing Time (PPT), **21 days prior to the outage week** in which the outage is scheduled to start.
6. 14 Day equipment – All other BES Planned Outages, unless noted in the exception list (See Appendix 1), are required to be submitted 14 days prior to the Outage Week (Monday to Sunday) in which the outage is scheduled to start. This includes generation derates of 50MW or greater at the unit or aggregate plant level.
 - a. All BES Planned outage requests are required to be submitted no later than 1500 hours PPT, 14 days prior to the outage week in which the outage is scheduled to start.
7. 4 Day equipment: The equipment and outage categories listed in Appendix 1 of BPA’s Outage Coordination Policy, for example, redundant relays and direct control (SCADA), may or may not be considered BES. These are required to be submitted to BPA no later than 1200 hours PPT, 4 business days prior to the day the outage is scheduled to start.

Outage Types

1. Planned Outage: Non-automatic facility/equipment outage, with advance notice, for the purpose of maintenance, construction (including energizing and testing new facilities), inspection, testing or other planned activities.
2. Operational Outage: Transmission facility/equipment that is removed from service in the normal course of maintaining optimal or reliable system condition but remain available if needed upon short notice.
3. Forced Outage: Facility/equipment that is removed from service real-time with limited or no notice.
4. Urgent Outage: Facility/equipment that is known to be operable yet carries an increased risk of a Forced Emergency or Forced Automatic outage occurring. Facility/equipment remains in service until personnel, equipment, any system conditions allow the outage to occur.
5. Opportunity Outage – A short-duration (one day) facility/equipment outage that can be taken due to a change in system conditions or availability of field personnel. Opportunity outage must not require an

Operating Plan and must be submitted prior to the Operational Planning Analysis lock-down.

Opportunity Outages are not a means to accomplish normal routine planned maintenance or testing.

See Appendix 1 of BPA Outage Planning and Coordination Policy for details.

6. Informational Outage – Facility/equipment outage that is entered for informational reasons including increased situational awareness, for BA/TOP internal purposes or to satisfy the RC Data Specification where WebOMS is the mechanism for communicating the information.

Study Engineer Coordination

1. If a Customer's scheduled outage requires an operating plan, BPA study engineers will coordinate with the Customer's operational contact as listed in Exhibit C of the TOP Services agreement. If the operating plan does not require any action by the Customer, BPA may move forward with the operating plan without additional Customer coordination. If the operating plan requires action by the Customer, BPA will ensure Customer agreement before the outage may proceed.
2. In real time, BPA will implement the operating plan as written or adjust as necessary in real time. If the operating plan changes, BPA will coordinate with affected parties.
3. If system conditions require rescheduling a planned outage, BPA will coordinate with the Customer to reschedule the outage.
4. If a planned outage requires dropping load, BPA will coordinate with the Customer; however, BPA retains the final risk-based decision to drop load or cancel the outage.

Coordination with Third Parties

1. BPA Outage Offices will review submitted outage requests from a reliability/coordination and reporting perspective. Application for Clearances and Hold Orders from foreign utilities requires additional detail specified in Appendix 6, Section C of BPA's Outage Coordination Policy.
2. Customer will be responsible for obtaining clearances from third parties at the time of the outage, unless the third party requires BPA to obtain clearances, and BPA is able to facilitate the request.
3. If the TOP Services customer has a connected generator that is within BPA's BA, then BPA will notify the connected generator for generation restrictions caused by TOP customer outages.
4. BPA encourages customers acting as a Transmission Owner to communicate with their generators for any affected outages from a customer service perspective.

BPA F 6500.15e
(12-2021)
(This form has combined
forms, BPA F 6500.16e &
BPA F 6500.17).

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION (BPA)

**TRANSMISSION OPERATOR PROVIDER (TOP)
OUTAGE REQUEST – CUSTOMERS / USBR / COE**

1. Requested by (Name of contact)		a. Contact Business Phone Number	b. Date
2. Utility / Customer / Powerhouse (Name)			
3. Circuit / Equipment / Generation Unit:			
4. Unit Status:			
a. List ALL Unavailable Units		b. Facility Derated to MW	
5. Start Date	a. Switch Time	b. Work Time	c. Work Duration
d. Stop Date	e. I / S Time	f. Duration Type	
		<input type="checkbox"/> Continuous <input type="checkbox"/> Daily	
6. Reason for Request:			
a. <input type="checkbox"/> Emergency		b. <input type="checkbox"/> Urgent	c. <input type="checkbox"/> Routine Maintenance
7. Clearance Required: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Information Only			
8. REQUIRED NOTIFICATIONS			
a. BPA Outage		b. USBR Grand Coulee / Black Canyon / RCC COE:	
(Click on below email address) (Attach saved form).			
c. Munro Control Center: Outage Coordination:		d. (509) 466.2409	e. e-mail: bpaoutage@bpa.gov
f. Dittmer Control Center: Outage Coordination:		g. (360) 418.2274	h. e-mail: bpaoutage@bpa.gov

Outage Coordination Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establishing baseline		J. McNeill	08/14/2017
2.0	01/01/2018	Removed references to IT systems, added definition of Control Center, added requirement to use Form.17, added detail about distribution of Appendix 2.	Annual review		J. McNeill	01/01/2018

3.0	05/10/2018	Errata change: changed mw to MW, added Form 6500.17e	Annual review		M. Walden	03/29/2019
3.1	07/10/2018	Bullet and numbering changes	Minor changes		C. Higgins	03/29/2019
3.2	03/27/2019	Changed hours to consistent military time	Minor changes		M. Walden	03/29/2019
4.0	07/15/2019	Removed 45-day outage and added in 2 month and 5 month.	Annual review		M. Walden	06/10/2020
4.1	04/23/2020	Errata change: removal of extra spaces in background, purpose, outage	Annual review		S. Hess	05/05/2021
5.0	11/29/2021	Updated Outage Coordination Form from 6500.17e to 6500.15e, changed reference from “Control Center” to “dispatch center”	Content changes		A. Rider	11/29/2021
6.0	9/13/2022	Expanded on definition of “dispatch center” as referenced in the TOPIC	Annual review		A. Rider	9/13/2022
7.0		Added language to include “associated communication and control equipment” Clarified BPA Outage Office	Content changes		M. Walden	6/26/2023
8.0	11/17/2023	Provided clarification on which section of the Outage Policy that lists the specific types of equipment and their timelines Added bookmark to equipment Change process section	Annual review		M. Walden	11/20/2023
9.0		Expanded on third-party coordination by adding in bullets 3 & 4	Annual review	M. Walden	L. Cardoza	9/4/2024
9.1		Added in a third bullet under General Responsibilities Defined outage windows (mid-range) etc. Added Outage Type section	Annual review		M. Walden	7/1/2025

NERC TRANSMISSION AVAILABILITY DATA SYSTEM

(TADS) REPORTING

Purpose

Transmission Availability Data System (TADS) is to implement a uniform approach to reporting and measuring transmission availability, performance, and other related reliability data. NERC will use the information to develop transmission metrics that analyze outage frequency, duration, causes, and many other factors related to transmission outages. NERC will also issue an annual public report showing aggregate metrics for each NERC Region. Each Transmission Owner reporting TADS data will be provided with a confidential copy of the same metrics for its facilities. This requirement applies to BES elements only. While this requirement applies to Transmission Owners (TO), BPA provides the information needed for the necessary reporting.

1. BPA will include Customer-owned elements in outage reports posted daily and by calendar year on BPA's website Outage & Reliability Reports Customer may download the report and filter by Transmission Owner to acquire information needed for outage reporting. The report will include 'out' date & time, 'in' date & time, and cause.
2. Dates and times will be reported in Pacific Prevailing Time (PPT)
3. Reporting Responsibility:
 - a. BPA will be responsible for reporting all elements where BPA has 100% ownership interest in such elements, as required. (BPA is TO)
 - b. Customer will be responsible for reporting all elements where Customer has 100% ownership in such elements, as required. (Customer is TO)
4. In instances where ownership interest is shared between BPA and Customer, the reporting entity shall be the entity who owns the majority of the element. In these cases, BPA and Customer will share information to complete forms for multiple-owner elements.

NERC Transmission Availability Data System (TADS) Reporting Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establishing baseline		J. McNeill	08/14/2017
1.1	05/10/2018	Errata change added and removed (TO) acronym	Annual review		M. Walden	07/10/2018
1.2	07/10/2018	Indentation changes	Minor changes		C. Higgins	07/10/2018
1.3	04/23/2020	Errata change adding 'to 1	Annual review		S. Hess	05/05/2021
1.4	07/28/2023	Errata formatting, moved 'Purpose' to separate line for consistency	Annual review		M. Walden	
2.0	08/22/2025	Updated link to correct Outage Reports section	Annual review		M. Walden	

		Removed Coordinated Universal Time due to BPA not using that reporting timeframe				
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REAL-TIME OPERATING PROCEDURES

Introduction

Coordination will be required between BPA Real-time Dispatchers and TOP Services Customers. The following table describes BPA Real-time Dispatcher and Customer actions under various operating conditions. Actions differ depending on whether Customer maintains a 24/7 dispatch center. For purposes of these procedures, a dispatch center means a facility hosting operating personnel that monitor and control the transmission system in accordance with a Transmission Operator Services Agreement and under the supervision of Bonneville Power Administration except during an emergency condition.

For reference, the format of Operating Instructions issued by BPA is:

This is [Operator Name and Org]. I am instructing you [Entity] & [Operator's Name] on [Date and Time]: to [Action to be taken] by [XXX Hours or within XX Minutes] to mitigate critical system conditions.

	EVENT	ACTION(S)	
		24/7 dispatch center	No 24/7 dispatch center
1.	Mitigation required (Real-Time Contingency Analysis SOL exceedance).	BPA will issue Operating Instructions for the involved equipment. If unable to communicate with Customer, BPA may trip at BPA facilities to mitigate (this will generally affect a larger portion of the Customer system).	BPA will notify the Customer (if time allows) then take action via direct control (SCADA). If unable to operate Customer equipment, BPA may trip at BPA facilities to mitigate (this will generally affect a larger portion of the Customer system).
2.	System Operating Limit (SOL) exceeded real-time.	Adjust system limits if better limits are known. If SOL is still exceeded, work with Customer to mitigate exceedance within SOL time frame.	Adjust system limits if better limits are known. If SOL is still exceeded and time allows work with Customer to mitigate exceedance within SOL time frame or take action via direct control (SCADA).
3.	Customer BES equipment has been or needs to be removed from service in real-time for emergency or urgent maintenance, mitigation, or any other kind of emergency.	If initiated by Customer, Customer will notify BPA Real-Time Dispatcher of need to remove equipment from service, preferably before taking out of service or else without intentional delay. If initiated by BPA, BPA will notify Customer of need, preferably before taking out of service and allow the Customer to remove from service. If Customer unable to remove from service in a timely manner, BPA may have to take action at a BPA controllable device.	If initiated by Customer, Customer will notify BPA Real-Time Dispatcher of need to remove equipment from service, preferably before taking out of service or else without intentional delay. If initiated by BPA, BPA will notify Customer of need, preferably before taking out of service and allow the Customer to remove from service. If Customer is unable to remove from service in a timely manner, BPA may have to take action at a BPA controllable device.

	EVENT	ACTION(S)	
		24/7 dispatch center	No 24/7 dispatch center
4.	Customer is ready to work on Planned outage.	Customer will notify BPA real-time Dispatcher prior to starting outage. BPA will assess if outage can move forward based upon real-time system conditions. BPA gives approval for work to commence. Customer calls BPA when switching is complete to give switching times. Customer calls BPA before restoring to get approval to restore. Customer calls BPA when restoration complete to give switching times.	Customer will notify BPA real-time Dispatcher prior to starting outage. BPA will assess if outage can move forward based upon real-time system conditions. BPA gives approval for work to commence. Customer calls BPA when switching is complete to give switching times. Customer calls BPA before restoring to get approval to restore. Customer calls BPA when restoration is complete to give switching times. Customer should plan to switch/operate their own equipment and not rely on BPA to operate equipment for planned outages See #11 for emergency work.
5.	Customer BES equipment trips out of service and locks out for unknown reasons.	Customer follows their operating procedures and notifies BPA. If any BES equipment cannot be returned to service within 30 minutes, another notification to BPA is required.	BPA notifies Customer of equipment out of service; BPA takes control action(s) at the request of the Customer (test/restore equipment if requested). Customer notifies BPA if any BES equipment cannot be returned to service within 30 minutes.
6.	BPA owned line to Customer BES trips out of service.	Coordinate testing/restoration with Customer.	BPA tests line (after patrol, if patrol is prudent), and restores line if test result is good. BPA notifies Customer if line tests bad. BPA notifies Customer if patrol finds trouble, if performed.
7.	Customer owned BES line to BPA terminal trips out of service.	Coordinate testing/restoration with Customer.	At Customer request, BPA tests line (after Customer patrols, if patrol is prudent), and restores line if test result is good. BPA notifies Customer if line tests bad. Customer notifies BPA if patrol finds trouble, if performed.

	EVENT	ACTION(S)	
		24/7 dispatch center	No 24/7 dispatch center
8.	Customer owned BES line to foreign utility trips out of service and locks out.	Customer coordinates testing/restoration with foreign utility. Notify BPA Real-Time Dispatcher afterward to provide out-of-service time and either in-service time or notification that line tested bad.	Coordinate testing/restoration with Customer.
9.	A third-party foreign utility requests a terminal of a TOP Customer BES line to be opened/closed.	Customer notifies BPA then coordinates with foreign utility.	Coordinate operation with Customer.
10.	Foreign utility requests switching/tagging at Customer terminal of BES line from them.	If BPA is notified, BPA will notify Customer.	If BPA is notified, BPA will notify Customer.
11.	Customer requests that BPA operate their BES equipment for urgent or emergency situations.	Not Applicable	BPA will operate Customer equipment as requested.
12.	Customer up-rates or de-rates the facility rating of their BES equipment.	Customer will notify BPA as soon as practicable. If the de-rate is done in real-time, notify the real-time Dispatcher.	Customer will notify BPA as soon as practicable. If the de-rate is done in real-time, notify the real-time Dispatcher.
13.	BPA receives trouble alarms on Customer BES equipment.	Not Applicable	BPA will notify Customer of need to investigate and advise BPA of status of equipment.
14.	BPA receives voltage alarm on Customer bus.	Customer will monitor and control voltage. Customer must notify BPA Real-Time Dispatcher if it observes a voltage deviation of $\pm 10\%$ of nominal voltage sustained for ≥ 15 continuous minutes.	BPA will assess alarm(s) and determine if further action is needed using prudent Dispatcher judgment.
15.	BPA requires operation of Customer BES equipment for BES operation (such as voltage/load control).	BPA issues Operating Instruction to Customer on their BES equipment.	BPA notifies Customer and issues Operating Instruction or takes action via direct control (SCADA).
16.	Station needs to be manned, either due to emergency or planned outage.	BPA calls out Customer personnel to man the station, unless an operating agreement between BPA and Customer states otherwise.	BPA calls out Customer personnel to man the station, unless an operating agreement between BPA and Customer states otherwise.
17.	RC issues Operating Instruction on Customer Equipment.	BPA will issue Operating Instructions for the involved equipment.	BPA will notify the Customer, if time allows, then take action via direct control (SCADA).

	EVENT	ACTION(S)	
		24/7 dispatch center	No 24/7 dispatch center
18.	Operating Instructions issued to foreign utility Balancing Authorities (BA) for Transmission Operator issues on Customer Equipment.	BPA will issue Operating Instructions to the BA for Customer equipment as needed (typically will apply only if Customer has generation).	BPA will issue Operating Instructions to the BA for Customer equipment as needed (typically will apply only if Customer has generation).
19.	Foreign utility Balancing Authorities (BA) issuing Operating Instructions to BPA on Customer BES equipment.	Foreign utility BAs may issue BPA, as the TOP, Operating Instructions on Customer equipment. BPA will issue Operating Instructions to the Customer as needed.	Foreign utility BAs may issue BPA, as the TOP, Operating Instructions on Customer equipment. BPA will notify the Customer, if time allows, and will operate Customer equipment via direct action (SCADA).
20.	Changes to Outage duration (equipment will not be removed from/returned to service as scheduled).	Customer will notify BPA Real-Time Dispatcher, as soon as practicable, when the timeframe for an outage on their BES equipment changes.	Customer will notify BPA Real-Time Dispatcher, as soon as practicable, when the timeframe for an outage on their BES equipment changes.
21.	EOP-004 Reporting Event (see Event Reporting Process).	Customer will notify BPA for any event that requires EOP-004 reporting on their BES equipment. In most cases, Customer will complete event reporting and send BPA a courtesy copy. See Event Reporting Procedure for more detail.	Customer will notify BPA for any event that requires EOP-004 reporting on their BES equipment. In most cases, BPA will complete event reporting and send Customer a courtesy copy. See Event Reporting Procedure for more detail.
22.	Planned telemetry or control equipment outages (BPA Real-Time Dispatcher will approve/disapprove outage but will not be involved in Customer switching process).	Customer will notify BPA Real-Time Dispatcher prior to starting outage (BPA will assess if outage can move forward based upon Real-Time system conditions).	Customer will notify BPA Real-Time Dispatcher prior to starting outage (BPA will assess if outage can move forward based upon Real-Time system conditions).
23.	Planned relay or other equipment outages (BPA Real-Time Dispatcher will approve/disapprove outage but will not be involved in Customer switching process).	Customer will notify BPA Real-Time Dispatcher prior to starting outage (BPA will assess if outage can move forward based upon Real-Time system conditions).	Customer will notify BPA Real-Time Dispatcher prior to starting outage (BPA will assess if outage can move forward based upon Real-Time system conditions).
24.	Unplanned telemetry or control equipment outages (includes failure of Remote Terminal Units (RTUs)).	Customer will notify BPA Real-Time Dispatcher of any unplanned telemetry or control equipment outages longer than 30 minutes in duration. BPA will work with Customer on plan of action pending restoration of equipment for outages longer than 30 minutes in duration.	BPA receives indication of loss of telemetry and control equipment. BPA notifies Customer of equipment failure. BPA will work with Customer on plan of action pending restoration of equipment for outages longer than 30 minutes in duration.

	EVENT	ACTION(S)	
		24/7 dispatch center	No 24/7 dispatch center
25.	Unplanned relay or equipment failures.	Customer will notify BPA Real-Time Dispatcher of unplanned relay or equipment failures that impact their BES.	BPA receives indication of loss of relay protection or equipment failures that impact Customer BES. BPA will notify Customer of failure/loss.
26.	Protection Scheme Status (Local Area Protection Schemes (LAPS), Auto-sectionalizing schemes (AS)).	Customer will inform BPA if protection schemes are taken out of service or fail.	Customer will inform BPA if protection schemes are taken out of service or fail.
27.	BPA loses communications with the Customer (cannot issue Operating Instructions).	BPA will treat this as an unplanned loss of control and report if outage is longer than 30 minutes in duration.	BPA retains control of Customer BES equipment via direct control (SCADA).
28.	Customer makes a change in ability for BPA to control via SCADA	Customer will schedule planned work through BPA Outage office. For urgent/emergency work Customer will schedule with BPA real-time Dispatcher. Customer will notify BPA real-time Dispatcher prior to any switching. Customer will provide a contact phone number in case BPA needs the device operated. Customer calls BPA real time Dispatcher prior to restoring control.	Customer will schedule planned work through BPA Field operations. For urgent/emergency work Customer will schedule with BPA real-time Dispatcher. Customer will notify BPA real-time Dispatcher prior to any switching. Customer will provide a contact phone number in case BPA needs the device operated. Customer calls BPA real time Dispatcher prior to restoring control.
29.	Customer to issue a Hold Order on customer equipment to non-BPA personnel and BPA has ability to control the equipment (this is not a BPA issued Hold Order)	Customer will schedule planned work through BPA Outage office. For urgent/emergency work Customer will schedule with BPA real-time Dispatcher. Customer will notify BPA real-time Dispatcher prior to any switching or issuance of the hold order. Customer will disable BPA ability to control the device. Customer will provide a contact phone number in case BPA needs the device operated. Customer calls BPA real time Dispatcher prior to restoring control.	Customer will schedule planned work through BPA Field operations. For urgent/emergency work Customer will schedule with BPA real-time Dispatcher. Customer will notify BPA real-time Dispatcher prior to any switching or issuance of the hold order. Customer will disable BPA ability to control the device. Customer will provide a contact phone number in case BPA needs the device operated. Customer calls BPA real time Dispatcher prior to restoring control.

Real-Time Operating Procedures Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establish baseline		J. McNeill	08/14/2017
2.0	01/01/2018	Removed redundant rows, added voltage deviation reporting requirement, added clarifying edits to identify Customer-owned equipment and BPA dispatcher.	Annual review		J. McNeill	01/01/2018
2.1	05/10/2018	Put LAP and AS in (), corrected typos.	Minor changes		M. Walden	08/10/2018
3.0	08/10/2018	Errata changes, defining RTU	Content changes		M. Walden	08/10/2018
4.0		Defined who the Customer should be notifying within BPA	Content changes			12/20/2018
4.1	01/31/2019	Added a numbers column for easy reference	Annual review		M. Walden	02/01/2019
4.2	03/27/2019	Added the format of Operating Instructions issued by BPA template language.	Minor changes		J. McNeill	03/29/2019
4.3	04/23/2020	Errata changes	Annual review		S. Hess	05/05/2021
5.0	03/11/2021	Added Event 28 and 29 per Operations' direction	Content changes		M. Granath	05/05/2021
6.0	07/28/2023	Added specificity on BPA not switching for Customer planned work in section 4 Sections 9,11,13 additional information provided	Annual review		M. Walden	11/20/2023

EVENT REPORTING (EOP-004-4 and OE-417)

General Responsibilities

1. This Event Reporting process only applies to Customers' BES Equipment listed in Exhibit A and associated communications and control equipment of the TOP Services Agreement.
2. Coordination between BPA and participating entity shall determine which entity will report. BPA will contact the Operations representative listed in Exhibit C - *Notices* of the Customer's contract unless an alternate contact is specified.
3. The identified entity will report the event with DOE Form OE-417,
 - a. The reporting entity should provide a copy of the report to any other responsible entity. Copies of Customer reports should be emailed to disturbances@bpa.gov, with a cc: csrp@bpa.gov
4. BPA reserves the right to make a final decision regarding whether or not an event requires reporting as a TOP.

EOP-004-4 Event Reporting Responsibility

Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Reporting under TOP Services Agreement
Damage or destruction of a Facility	RC, BA, TOP	Damage or destruction of a Facility within its RC Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a BES Emergency.	BPA
Damage or destruction of its Facility	TO, TOP, GO, GOP, DP	Damage or destruction of its Facility that results from actual or suspected intentional human action. It is not necessary to report theft unless it degrades normal operation of its Facility.	Customer
Physical threats to its Facility	TO, TOP, GO, GOP, DP	Physical threat to its Facility, excluding weather or natural disaster-related threats, has the potential to degrade the normal operation of the Facility. OR Suspicious device or activity at its Facility.	Customer
Physical threats to its BES control center	RC, BA, TOP	Physical threat to its BES control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. OR suspicious device or activity at its BES control center.	BPA

Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Reporting under TOP Services Agreement
Public appeal for load reduction resulting from a BES Emergency	BA	Public appeal for load reduction to maintain continuity of the BES.	N/A
System-wide voltage reduction resulting from a BES Emergency	TOP	System wide voltage reduction of 3% or more.	BPA
Firm load shedding resulting from a BES Emergency	Initiating RC, BA, or TOP	Firm load shedding ≥ 100 MW (manual or automatic).	BPA
BES Emergency resulting in voltage deviation on a Facility	TOP	A voltage deviation of $\geq 10\%$ of nominal voltage sustained for ≥ 15 continuous minutes.	BPA
Uncontrolled loss of firm load resulting from a BES Emergency	BA, TOP, DP	Uncontrolled loss of firm load for ≥ 15 minutes from a single incident: ≥ 300 MW for entities with previous year's peak demand $\geq 3,000$ MW OR ≥ 200 MW for all other entities	BPA
System separation (islanding)	RC, BA, TOP	Each separation resulting in an island ≥ 100 MW.	BPA
Generation loss	BA	Total generation loss, within one minute, of: $\geq 2,000$ MW in the Eastern, Western, or Quebec Interconnection OR $\geq 1,400$ MW in the ERCOT Interconnection. Generation loss will be used to report Forced Outages not weather patterns or fuel supply unavailability for dispersed power producing resources.	N/A
Complete loss of off-site power to a nuclear generating plant (grid supply)	TO, TOP	Complete loss of off-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements	BPA
Transmission loss	TOP	Unexpected loss within its area, contrary to design, of three or more BES Facilities caused by a common	BPA

Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Reporting under TOP Services Agreement
		disturbance (excluding successful automatic reclosing).	
Unplanned evacuation of its BES control center	RC, BA, TOP	Unplanned evacuation from its BES control center facility for 30 continuous minutes or more.	BPA
Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability at its staffed BES control center	RC, BA, TOP	Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed BES control center for 30 continuous minutes or more.	BPA
Complete loss of monitoring or control capability at its staffed BES control center	RC, BA, TOP	Complete loss of monitoring or control capability at its staffed BES control center for 30 continuous minutes or more.	BPA

Event Reporting Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establish baseline		J. McNeill	08/14/2017
2.0	01/01/2018	Added Customer reporting responsibility if the Customer is the initiating entity in certain events.	Annual review		J. McNeill	01/01/2018
3.0	05/24/2018	Clarified applicability of process	Content changes		J. McNeill	05/24/2018
3.1	07/10/2018	Indentation changes	Minor changes		C. Higgins	02/01/2019
4.0	09/14/2018	Adding full title to Exhibit references, adding specific contact info for BPA, and updating table for new version of standard.	Content changes		J. McNeill	02/01/2019
5.0	03/27/2019	Corrected DOE form title and clarified that BPA has the right to make the final call as a TOP.	Annual review		M. Walden	03/29/2019
5.1	04/24/2020	Errata	Annual review		S. Hess	5/5/2021

6.0	04/28/2021	In the Event Reporting Section, added 'In addition, copies of Customer reports should be emailed to disturbances@bpa.gov ' under bullet 4.	Annual review		S. Hess	5/5/2021
7.0	7/28/2023	Added in clarity pertaining to joint coordination on Event Reporting Reviewed with ops and planning to maintain consistency with the standard Added “and associated communications and control equipment”	Annual review		M. Walden	11/20/2023

EMERGENCY OPERATIONS - EOP-011

Purpose:

BPA as the Transmission Operator (TOP), is required to have an Emergency Operating plan for EOP-011. BPA's plan accounts for all load within the BPA Transmission Operator footprint.

BPA has identified customers based on total load share in our Manual Load Shedding Plan, DSO 332. BPA will e-mail the Manual Load Shed Plan (DSO 332) to those entities annually.

R7. Each Transmission Operator shall annually identify and notify Distribution Providers, UFLS-Only Distribution Providers and Transmission Owners that are required to assist with the mitigation of operating Emergencies in its Transmission Operator Area through operator-controlled manual Load shedding, undervoltage Load shedding, or underfrequency Load shedding.

Emergency Operations Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	07/01/2025	Initial process creation	Establish baseline		D. Goodrich	

VISIBILITY OR CONTROL EQUIPMENT REPAIR

EXPECTATIONS

Loss of Visibility and/or Control

In the event that BPA loses a single piece of data or a single control point on Customer-owned equipment covered by TOP Services, BPA may consider allowing Customers' response to wait until normal working hours, based on the BPA dispatcher's judgment. Should BPA lose more than a single piece of data or a single control point but less than an entire station, the appropriate Customer response would be up to the judgment of BPA's Senior Dispatcher dependent upon system conditions. In the event that BPA loses visibility and/or control of an entire station or group of stations owned by Customer and covered by TOP Services, BPA requires an immediate response (24/7) from Customer to troubleshoot and initiate corrective action and may require Customer to call out operations staff to man the station(s) that were lost.

Visibility or Control Equipment Repair Expectations Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establish baseline		J. McNeill	08/14/2017
2.0	01/01/2018	Clarified responsible parties	Annual review		J. McNeill	01/01/2018
2.1	08/10/2018	Capitalizing Customer	Minor changes		M. Walden	02/01/2019
2.2	04/24/2020	Errata	Annual review		S. Hess	05/05/2021
2.3	04/06/2023	Errata – capitalization and spacing	Annual review		L. Cardoza	04/06/2023

BPA PLANNING COORDINATOR ANNUAL DATA

EXCHANGE PROCESS

General Overview

The Western Electricity Coordinating Council (WECC) develops a series of power flow and dynamics simulation models that are used by BPA and its Customers for performing, planning, and operational reliability and economic studies needed to fulfill various North American Electric Reliability Corporation (NERC) and Tariff compliance obligations.

Pursuant to Requirement 1 of MOD-032-1, Data for Power System Modeling and Analysis BPA, as the Planning Coordinator established a set of common procedures for submitting data needed for developing the WECC interconnection planning models, found in the BPA MOD-032 Model Data Requirements & Reporting Procedures document. This document outlines data reporting procedures needed to support the development of power flow and dynamics simulation base case models in a manner compliant with MOD-032 that realistically simulates steady state and dynamic behavior of the transmission system. These data reporting procedures serve the basis for BPA's Annual Data Exchange (ADE) and may include additional data requirements and NERC Standards as needed to support the WECC Seasonal Base Cases. TOP Services Customers shall comply with the ADE format and schedule(s) issued by BPA.

BPA Policy Reference

TOP Customers are expected to comply with BPA's MOD-032 Model Data Requirements & Reporting Procedures, available at the following link under the Planning Coordinator dropdown:

<https://www.bpa.gov/energy-and-services/transmission/reliability-nerc-standards>

Equipment Changes

Per the obligations under the TOP Services Agreement, changes to any equipment affecting BES equipment as defined in Exhibit A – *BES and Other Equipment Subject to this Agreement*, must be communicated immediately by following the System Equipment Change Process contained in the TOPIC. Examples include:

- Line rating memo
- Fiber
- Any changes to previously submitted BPA Annual Data Exchange requests

BPA Planning Coordinator Annual Data Exchange Process Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establishing baseline		L. Jones	08/14/2017
2.0	10/03/2017	Added in Mid-Year changes portion	Content changes		L. Jones	11/10/2017
2.1	03/27/2018	Removed the term "Mid-Year"	Minor changes		M. Walden	03/28/2018
2.2	08/10/2018	Adding full title to Exhibit letter	Minor changes		M. Walden	02/01/2019

3.0	12/20/2018	Added in Customer providing data requests within BPA format and schedule	Content changes		C. Higgins M. Walden	02/01/2019
4.0	01/11/2019	Changed title to align with Annual Data Exchange. Also, added blurb about facility ratings.	Annual review		M. Walden	02/01/2019
4.1	04/24/2020	Errata	Annual review		S. Hess	05/05/2021
4.2	09/13/2022	Errata	Annual review		A. Rider	09/30/2022
5.0	04/06/2023	Errata – capitalizations, spacing, added additional instructions for website navigation	Content changes		L. Cardoza	04/06/2023
6.0	7/28/2023	Added in clarity on functional roles and additional data needs Added in fiber as an example of equipment that isn't BES that <i>could</i> affect BES assets	Annual review		M. Walden	11/20/2023

CONTRACT EXHIBIT UPDATE PROCESS

General Overview

The process for updating a contract exhibit within a TOP contract is triggered by a change in equipment, cost, contact information, and/or Implementation Plan. The purpose of this process is to ensure that TOP contract exhibits are updated in a timely and consistent manner.

Annually in calendar year Q3, CSRP will validate the accuracy of all data within all exhibits and update as necessary.

Exhibit A, BES and Other Equipment Subject to this Agreement Updates

Customer shall notify CSRP by submitting the [System/Equipment Change Form](#) posted on the [external website](#) prior to any change that impacts the configuration or function of its BES transmission system as well as any change in BES equipment, and any equipment that may affect BES equipment. See [“System Equipment Change Process”](#).

Exhibit B, Billing Determinants Updates

Exhibit B – *Billing Determinants* updates will be driven by the annual cost reconciliation and cost allocation processes. Customers will have the opportunity to review draft budget numbers at the annual customer meeting in the fall timeframe. Exhibit revisions reflecting updated costs for the following calendar year will be issued by October 1st.

Exhibit C, Notices Updates

Exhibit C – *Notices* updates can be driven by either party any time there is an update to contact information. If Customer information changes, Customer will notify CSRP by submitting the [Notices Change Form](#) found on the [external site under the Transmission Operator dropdown](#). CSRP will update the exhibit and issue the revision. If BPA contact information changes, CSRP will issue a revised exhibit.

Exhibit D, Implementation Plan Updates

CSRP shall work with Customer prior to any change in Implementation Plan actions. External regulatory impacts or feedback may necessitate updates to the Implementation Plan. CSRP will update Exhibit D to reflect Implementation Plan changes, share a draft with Customer to ensure changes are captured accurately, and minimize impact and costs to Customer, and provide a revised exhibit.

Contract Exhibit Update Process Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Original	Establishing baseline		TOPCAT	08/14/2017
1.1	05/10/2018	Added in “in calendar Q3” timeframe. Errata change; turned first sentence from fragment to complete sentence.	Minor changes		M. Walden	07/10/2018

2.0	07/10/2018	Added new language to the “Exhibit A, BES Equipment Subject to this Agreement Updates” section regarding customer coordination and customer notice of change. Language also aligns with the TPIP document.	Annual review		C. Higgins	07/10/2018
3.0	12/20/2018	Added in Ex. A / Ex. C form submission process	Content changes		C. Higgins M. Walden	02/01/2019
4.0	03/31/2020	Changed 90-day notice to 160-day notice per RC West timeline	Annual review		M. Walden	06/10/2020
5.0	04/24/2020	Changed annual customer meeting timeframe to fall/winter from late summer per Step 8 of Cost Reconciliation process, errata	Content changes		S. Hess	05/05/2021
6.0	6/7/2022	Modified system equipment change process: <ul style="list-style-type: none"> • Changed from 160 to 210 days to accommodate RC West requirements • Modified language to account for ‘emergency’ projects “210 days and/or as formally agreed” Modified the equipment change form to capture: “Altering the status of a Transmission dispatch center to a NERC defined Control Center”	Annual review		T. Daufel/L. Cardoza	09/30/2022
7.0	9/13/2022	Clarification on Exhibit A equipment timeline: <ul style="list-style-type: none"> • Added note for like-for-like 	Content changes		A. Rider	09/30/2022

		equipment maintenance Modified equipment change form to capture “Change in equipment ratings?”				
7.1	04/06/2023	Errata – added direct link to System Equipment Change Form and additional website navigation instructions. Moved System Equipment Change Process to new section	Minor changes		L. Cardoza	04/06/2023
8.0	7/28/2023	Moved System Equipment Change process to its own process Clarified any changes that impact the configuration or function of the BES transmission system Removed ‘winter’ for a customer meeting	Content changes		M.Walden	11/20/2023

SYSTEM EQUIPMENT CHANGE PROCESS

Section A – General Overview

Customer shall notify, a minimum of 235 days prior, of any change that impacts the configuration or function of the BES transmission system, including communications and control changes, by submitting the [System/Equipment Change Form](#) posted on the [external website](#). An impact to the BES system includes BES equipment as well as non-BES equipment that may change or modify BES equipment.

Section B – BES Determination:

Customers have the responsibility and authority to determine if an asset will qualify as BES. BPA as the Transmission Operator must mutually agree on the BES designations within BPA's TOP jurisdiction. In the event BPA and the TOP participant cannot mutually agree, we will agree to escalate to the regulators for a formal determination.

Please contact your CSE with any questions on applicable equipment.

**Please contact CSRP@BPA.GOV immediately if the entity is not able to meet the 235-day requirement. Additional information will be required. These situations will be treated on a case-by-case basis, BPA cannot guarantee that the entities requested energization date will be met.*

Section C – Applicable Equipment

Any time a customer has a change in equipment that may have an effect on BES assets, the customer shall notify CSRP by submitting the System/Equipment Change Form posted on the external website prior to any change in equipment. Please CC your Customer Service Engineer (CSE). BPA will coordinate with the Customer on BES determination. A change in equipment may include, but is not limited to:

- Adding new equipment
- Communication equipment / fiber
- Replacing or rebuilding existing equipment which would result in a change in equipment ratings
- *Note: This does not include equipment maintenance that retains existing equipment ratings*
- Reconfiguring existing facilities (such as sectionalizing, bypassing, or modifying the layout of a substation)
- Adding, modifying, or removing remedial action schemes or special protection systems or other automatic controls that affect the BES
- Retiring or removing equipment
- Altering the status of a Transmission dispatch center to a NERC defined Control Center

Section D – Timing Requirements

Customer's official notice of change must occur a minimum of 235 days and/or as formally agreed prior to the expected equipment energization date except for equipment changes that are the result of a like -for-like replacement (i.e., replacing a mis-operating circuit breaker with equal or greater interrupting capabilities or re-conductoring a portion of a transmission line with no change to the rated capability of the line). More notice is preferred to ensure timely coverage of equipment in the planning or operations horizon. BPA will update Exhibit A – *BES Equipment Subject to this Agreement* to reflect BES equipment changes, share a draft with Customer to ensure changes are captured accurately, and offer a revised exhibit for signature.

System Equipment Change Process Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	6/28/2023	Moved and created a separate process for System Equipment Change process Added “any change that impacts the configuration or function of the BES transmission system, including communications and control changes” Errata on indent Added hyperlink to page for easy access from Outage Coordination section	Establishing baseline		A. Rider	11/20/2023
2.0	9/3/2024	Changed 210-day requirement to 235-days Added in BES Determination section Added communication equipment as potentially impacted equipment for BES	Annual review		M. Walden	
2.1		Broke out sections for easier reference			M.Walden	7/17/2025

COST ALLOCATION

General Overview

TOP services costs are allocated across participating Customers based upon peak load, the number of BES lines and buses covered under the contract, and the base charge spread across all Customers.

The total costs to be recovered in each calendar year are based upon the forecasted cost of incremental resources BPA hires to implement the service. Program costs will not include any penalties or fines assessed to the TOP. The incremental resource cost is adjusted annually to reflect actual costs and projected changes for the upcoming calendar year. Based upon this adjustment, the program determines a net cost to be allocated across participating Customers.

Each calendar year's cost is to be collected and split across four billing determinants. For example, in 2025, 25 percent of the total cost is allocated to the base rate, 20 percent of the total cost is allocated based upon Customer load, and the remaining 55 percent is split equally between lines and buses. Based upon the sum of all participating Customers' loads and equipment, rates are derived per megawatt, per line, and per bus.

The derived rates are applied to each Customer's specific load and equipment, the base charge is included, and the total becomes the Customer's share of the annual cost.

Charges for BES equipment changes outside the annual billing cycle will be prorated, beginning when the asset is energized. The BES Equipment List (Exhibit A) and Billing Determinants (Exhibit B) will be updated to reflect the Customer asset changes. Changes will only apply to the asset owner and will not affect the overall cost allocation to each participating TOP services Customer until the start of next year's billing cycle.

Note: 2025: BPA audited the TOP Cost Allocation rate and determined that BPA had not been collecting for FTE overheads. The TOP Rate has been adjusted accordingly.

Process Steps

Step 1 – CSRP will validate resource needs within the BPA organizations that implement the TOP program to set the FTE budget for the upcoming operating year.

Step 2 – CSRP to confirm Customer assets with the Customer and the Customer Service Engineer (CSE)

Step 3 – CSRP will obtain the upcoming operating years BFTE rate calculation with overheads

The TOP Operating year rate calculation is:

#BFTE x BPA BFTE Overhead rate = 202X TOP Operating Costs

Example:

2026 Operating costs are:

5 FTE x \$255,777.60 = \$1,278,888

Step 4 – CSRP to update the calendar year Cost Spreadsheet with new operating costs:

Step 5 – The Cost Spreadsheet will calculate the new billing rates per:

- a) MW/cost (pulled from the previous calendar year FERC 714 report)
- b) Number of lines
- c) Number of buses
- * Base cost stays constant

Step 6 – CSRP will update and distribute all participating Exhibit B – Billing Determinants no later than October 1st annually.

- a) CSRP will roll out draft numbers in the TOP/CFR Customer Workshop and answer any cost-related questions Customers may have.

Step 7 – Exhibit B – Billing Determinants will be effective on January 1st

Reference Material

- BPA FERC 714 Report
<https://transmission.bpa.gov/Business/Operations/FERC714/>

FERC-714 Use

The FERC-714 Annual Power System Reports is a collection of annual reports to FERC including generation capabilities & peaks, Balancing Authority area loads & interconnections, scheduled and actual interchange, Customer load peaks, and system load forecasts. For TOP Services contractual costs, BPA uses the highest peak demand (MW) load shown on the “PT III, Sch1” tab as part of the calculation for determining Customer annual rate.

General Responsibilities

The CSRP Program Manager has been assigned by the Tier II Manager whose organization has lead responsibility for sustaining, maintaining, and updating the Customer costs associated to the TOP Services performed by BPA for the life cycle of the contractual agreement. The Program Manager:

1. Establishes the Rate for each calendar year.
2. Ensures TOP costs are communicated in a clear transparent manner.
3. Provides continual emphasis on BPA’s position of “Net-Zero.”

Cost Allocation Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation.	Establishing baseline		L. Jones	08/14/2017
2.0	10/06/2017	Process updated in response to Customer feedback.	Process changes		L. Jones	11/02/2017
3.0	01/01/2018	Added BES equipment changes language to describe the general overview of the process.	Annual review		L. Jones	01/01/2018
4.0	06/07/2018	Clarified mid cycle equipment updates and associated charges	Content changes		L. Jones	06/07/2018
5.0	06/26/2018	Added a new step 2 for seeking organization/management validation for what their resource needs for the upcoming calendar year. Errata changes.	Content changes		L. Jones	06/26/2018

5.1	08/10/2018	Changed Segment to Sections to align with language in Exhibit A – Equipment List	Minor changes		M. Walden	02/01/2019
6.0	07/15/2019	Added in the NERC line definition and BPA's – to be revised at a later date.	Annual review		M. Walden	06/10/2020
7.0	10/02/2019	Based on internal discussions, removed the NERC/BPA line definitions.	Content changes		M. Walden	06/10/2020
8.0	03/31/2020	Removed summer meeting option, just going to one meeting in the fall/wintertime frame	Annual review		M. Walden	06/10/2020
8.1	04/27/2020	Errata changes	Minor changes		S. Hess	05/05/2021
8.2	7/28/2023	Errata changes	Annual review		M. Walden	
9.0	9/4/2024	Updated outdated years as examples of billing	Content changes		M. Walden	
10.0	8/11/2025	2025: BPA audited the TOP Cost Allocation rate and determined that BPA had not been collecting for FTE overheads. The TOP Rate has been adjusted accordingly. For 2025 this resulted in a 30% increase	Content changes		L. Cardoza	

COST RECONCILIATION

General Overview

This is the process for identifying how costs and revenue (Net Zero) are reconciled from one year to the next. The purpose of this process is to ensure that reconciliation of costs are performed consistently, to demonstrate the mechanics of how costs are reconciled, and to add transparency between BPA and its TOP Services Customers.

Reference Document

- BPA FERC 714 Report
<https://transmission.bpa.gov/Business/Operations/FERC714/>

Process Steps

Step 1: Annually beginning in June, CSRP will begin the Cost Reconciliation process.

Step 2: CSRP to seek validation from the internal organizations with allocated resources. Each organization will validate their resource expenditures for the current calendar year.

Step 3: CSRP will obtain the following operating years BFTE rate calculation with overheads

Step 4: Each year, CSRP to compare numbers and maintain Cost Spreadsheet.

Step 5: The next year's rates will be estimated by July and locked down by October 1 annually.

Step 6: CSRP will roll out draft numbers and answer any cost-related questions in the Fall TOP Working Group Session.

General Responsibilities

The CSRP Program Manager has been assigned responsibility by the Tier II Manager for sustaining, maintaining, and updating the Customer costs associated with the TOP Services performed by BPA for the lifecycle of the contractual agreement. The Program Manager:

1. Establishes the Rate for each calendar year.
2. Ensures TOP costs are communicated in a clear transparent manner.
3. Provides continual emphasis on BPA's position of "Net Zero" rate.

Cost Reconciliation Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation.	Establishing baseline		L. Jones	08/14/2017
1.1	05/10/2018	Errata change: Made first line into full sentence.	Annual review		M. Walden	03/28/2019
2.0	07/10/2018	Errata changes. Numbering changes. Changed language in section "Process Steps/Step 4" for seeking organization/management validation for what	Content changes		C. Higgins	03/28/2019

		their resource needs are for the current calendar year.				
3.0	03/31/2020	Removed Summer meeting option, moving to just one fall/winter one	Annual review		M. Walden	06/10/2020
3.1	7/28/2023	Errata changes	Minor changes		M.Walden	11/20/2023
4.0	8/11/2025	Modified TOP Rate calculation to remove variables and align with BPA FTE overhead rates	Content changes		L. Cardoza	

TOP BPA – CUSTOMER COORDINATION SESSIONS

General Overview

BPA will host focused annual coordination sessions for each TOP Services customer with representation from System Operations and Field Operations personnel. The sessions are intended to review any areas of focus as they pertain to the Transmission Owner or Transmission Operator.

BPA's Semi-Annual Coordination Sessions

These sessions are intended to be biennial. A condensed session will occur when significant management shifts occur.

Who

Customer

Operations Staff, Dispatch Supervisor, Operations Manager, Lead Field Personnel (those who perform switching)

BPA

District Manager, Chief Substation Operator, System Operations, Substation Operations, System Protection and Control Representatives, Customer Service Engineer, and Account Executive

What

Semi Annual session to review the TO – TOP relationship

Each session will be completely customized to that customer, their system, and our needs

Session Agenda

Review any operational issues from the last refresher training with the customer
(BPA to pull operational items from the logs)

Other Suggested Agenda Items:

- Review TOPIC Roles and Responsibilities
 - Line and Equipment Jurisdiction
- Outage Coordination
 - Validate and discuss Outage Coordination process
 - Refresher on Appendix 2 of the Outage Coordination Policy
 - Review Customer-Associated Outage timelines
 - Day-of changes to Planned Outages
 - Planned, Urgent, and Emergency Outage Requests
- Trouble Reporting (when, who, what) (if applicable)
- Communication
 - COM-002:Operating Personnel Communication Protocols – three-part communication
 - Cut Alarms – when on Local Control
 - Communication gear (fiber)
 - Associated equipment
- Switching Protocols

- Tagging Procedures for Clearances
- Tagging Procedures for Hold Orders
- Review of shared and impacted Protection Schemes
- Relay Settings (PRC-005)
- Real Time Study Engineer Update
- Review Customer System
 - Inflight review – TOP Customer Upcoming projects
- Facility Ratings
- Data Requests
- TP-CFR Update (if applicable)
- RAS, Emergency Restoration Plan, Review DSO 332 (if applicable)
- Customer Planning Coordination Session Open Discussion
- Additional Operational Discussion Points
 - Metering boundaries
 - Local Operational Support
 - Munro vs Dittmer
 - Approval time on Outage Requests
 - Outage Request Form delays
 - TADs Reporting

TOP BPA – Customer Coordination Sessions Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	8/6/2021	Initial process creation.	Establishing baseline		L. Cardoza	8/6/2021
2.0	6/7/2022	Explicitly called out reviewing equipment categorization in Appendix 2 of the BPA Outage Coordination Policy	Annual review		L. Cardoza	
		<ul style="list-style-type: none"> ○ Added reference to the Outage Management System (OMS) ○ Removed "Review Modeling Changes" Added: "Assess if BPA - Customer Planning Coordination Session is necessary"			L. Cardoza	04/06/2023

3.0	7/28/2023	Errata changes Added in semi-annual Expanded on OMS	Annual review		M.Walden	11/20/2023
4.0	9/4/2024	<ul style="list-style-type: none"> Removed OMS reference Removed Terminology & Nomenclature Added in 'shared & impacted' on protection schemes Added in RTSE Update Expanded agenda	Annual review		M.Walden	
5.0	7/1/2025	Added additional session when significant management has changed verbiage	Annual Review		M.Walden	

TOP ANNUAL LETTER PROCESS

General Overview

This process governs the creation and execution of the Annual TOP Services letter. The letter validates that BPA has successfully performed the Transmission Operator function per the NERC Standards on behalf of qualifying Customers. This letter is in addition to and does not replace BPA's Annual System Review (ASR) letter.

BPA's Annual TOP Compliance Letter to Customers

For the Transmission Operator Role, BPA provides services under a Customer executed contract. BPA will provide a letter certifying compliance to the Customer, stating that BPA performed the TOP function as described in NERC Reliability Standards:

- BPA's self-certification period is the calendar year.
- CSRP validates compliance status (including event driven standards) and prepares letters for signature – January timeframe.
- CSRP sends executed Section 4c of the TOP Agreement compliance letter to Customer by March 31st annually per contract provision.

Customer's Annual TOP Compliance Letter to BPA

No later than January 31st each year, Customer shall provide BPA an attestation that, to the best of Customer's knowledge, for the previous calendar year, it is:

- In compliance with all applicable mandatory Reliability Standards; or
- If non-compliant with any applicable mandatory Reliability Standards, under a WECC-approved Mitigation Plan.

TOP Annual Letter Process Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	10/06/2017	Replaced placeholder language with process.	Establishing baseline			11/02/2017
1.1	05/10/2018	Defined acronym ASR and removed February timeframe.	Annual review		M. Walden	07/10/2018
1.2	07/10/2018	Indentation and bullet changes.	Minor changes		C. Higgins	07/10/2018
1.3	08/10/2018	Capitalized Reliability Standards	Minor changes		M. Walden	03/28/2019
2.0	01/31/2019	Revised language on intent of the letter and removed general rules, as they were redundant.	Annual review		L. Jones	03/28/2019
3.0	03/31/2020	Added section specifications to the compliance letter	Annual review		M. Walden	06/10/2020

3.1	04/27/2020	Errata changes. Changed preformed to performed	Minor changes		S. Hess	05/05/2021
4.0	07/10/2023	Added Section 5C letter instructions Errata changes	Annual review		M.Walden	11/20/2023

TOPIC REVIEW & UPDATE PROCESS

General Overview

The process for updating the TOPIC is driven by:

- A change to Reliability Standards applicable to the TOP
- Customer requesting a new process or a change to an existing process
- BPA identifying a need to change an existing process or to create a new process

Purpose

This process is to ensure consistent management of TOPIC processes and guidance that set expectations for BPA and Customers under TOP Services. The result of this management will be increased user visibility, transparency, collaboration, ownership, clarity in roles, and responsibility. The TOPIC is a collection of processes and guidance documents used for the sole purpose of providing guidance, instruction, and reference to the Transmission Operator Services Agreement(s) between BPA and its Customers.

Transmission Operator Integrated Compendium (TOPIC) Definition

The Transmission Operator Integrated Compendium or TOPIC, documents TOP procedures necessary to provide BPA with the ability to carry out its TOP responsibilities as they relate to Customers' BES equipment listed in Exhibit A – *BES Equipment Subject to this Agreement*.

Version Control of the TOPIC

The TOPIC has a summary of changes at the end of the document that will track programmatic changes using whole number version control (i.e., Version 1, Version 2, etc.). Examples of programmatic changes include but are not limited to:

1. Cost allocation process changes
2. Contract exhibit update process changes
3. Additions and/or changes to definitions
4. New standards applicable to the TOP

Each process has a separate version control that tracks changes in standards, requirements, or compliance processes and uses decimals (e.g., Version 1.1, Version 1.2). The TOPIC version control process will mimic the NERC Standards versioning process; errata changes will use sub-numbering, and content changes will use whole numbering. Examples of process changes include but are not limited to:

1. Existing standard or requirement changes requiring an update of the associated process
2. Retirement of standard or requirement
3. Data request time frames are altered by BPA

Establishment of New or Updated TOPIC Process

New or updated process/guidance is required:

- BPA Customer Service Reliability Program (CSRP) requests or approves need for new process/guidance and assigns individual process owner
- BPA Customer requests a new process/guidance or revision/update to current process/guidance
- BPA CSE/AE requests a new process/guidance or revision/update to current process/guidance

Owner Determination & Guidance

Process Owner is determined in part by organizational impact and knowledge and is ultimately assigned by the CSRP team

Write Process/Guidance

Individual Process Owner and CSRP will work in collaboration to establish new process/guidance.

- Use TOPIC process templates to establish process
- Follow consistent established format for supporting process
- For other guidance (e.g., flowcharts, cheat sheets, etc.) that is deemed worthy of maintaining over time, the following critical elements must be present:
 - Purpose/General Overview
 - Version
 - Date approved
 - Date last changed
 - Date last reviewed
 - Review Period

BPA and Customer Collaboration

CSRP will facilitate collaboration with BPA Customer by:

- Communicating process/guidance via email
- Post draft process on TOP [external website](#) under the Transmission Operator dropdown for 30-day Customer comment period, as applicable
 - BPA will post both a redline version as well as a clean version to aid in comparison
- CSRP will respond to Customer comments
- Reviewing process/guidance at the annual TOP Customer meeting

Finalize and Establish Review Period

CSRP performs the following:

- Finalizes process/guidance document with approval date
- Post final process/guidance to the BPA TOP external website
- Send out communication when document is final

Periodic Review

CSRP is responsible for periodically reviewing the TOPIC document to ensure all processes and guidance documents are current and adequate.

Responsibilities

CSRP Program Manager is responsible for the overall vision and direction of the TOPIC Review and Update Process.

TOPIC Review and Update Process Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	08/01/2017	Initial process creation	Establishing baseline			08/14/2017
1.1	03/27/2018	Included adding the redline and clean version of the TOPIC	Minor changes		L. Jones	03/28/2018
1.2	05/10/2018	Errata change: Made the first line a complete sentence. Changed	Minor changes		M. Walden	07/10/2018

		TOPCAT for consistency throughout the document				
2.0	07/10/2018	Changed language under “General Overview” for what drives changes in the TOPIC. Added new language for “Version Control Of The TOPIC”. Language changes/additions align with TPIP.	Annual review		C. Higgins	07/10/2018
2.1	08/10/2018	Added bullet to send out the TOPIC after has been finalized	Minor changes		M. Walden	03/28/2019
2.2	03/31/2020	Removed TOPCAT reference, defined CSRP, errata changes	Annual review		M. Walden	06/10/2020
2.3	04/27/2020	Errata changes	Minor changes		S. Hess	05/05/2021
2.4	04/06/2023	Errata changes to include capitalization, punctuation, and website navigation	Minor changes		L. Cardoza	04/06/2023
2.5	7/13/2023	Errata and external site clarification	Annual review		M. Walden	11/20/2023

FAILURE TO ADHERE TO TOPIC PROCESSES

General Overview

In the event that a participating TOP Service entity fails to follow processes or procedures outlined in the TOPIC, BPA will take the following steps. This process applies to failure to follow processes or procedures in the same topical/subject area (the topical/subject areas are outlined within the TOPIC). It is important to note that failure to follow processes or procedures that compromise safety, or reliability will result in immediate action.

Violations will remain on record for 3 years, upon the 3-year anniversary CSRP and Operations will review and agree to absolve or retain.

Order of Escalation for contract violations (please note that the order of escalation will be based on the same violation occurring in a repetitive fashion):

1st Occurrence: Customer receives:

1. Email notification of the issue to the Operations and Compliance managers outlining the entity's inaccuracy in following the TOPIC
2. Refresher training from BPA, if appropriate. This step is intended to refresh the entity of the relevant processes or procedures.

2nd Occurrence: Customer will:

1. Receive a formal letter to their General Manager, Operations Manager, and Compliance Manager (as applicable) outlining the entities 2nd instance of not following processes and/or procedures in the TOPIC
2. Training refresher – mandatory

3rd Occurrence: Escalate to Transmission Vice Presidents for next steps

1. Dependent on the situation, the Transmission Vice President will engage the entity to discuss the issues and any potential concerns.

****Each situation is treated case by case**

Failure to Adhere to TOPIC Processes Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0		Creation	Establishing baseline		Lorissa Jones, Kammy Rogers-Holiday, Allen Chan, Dena Sauer, Kelly Johnson	4/15/2019

1.1		Revised title so not to match the penalty charge title BPA has for outside TOP services	Minor changes		M. Walden	10/3/2019
1.2		Errata & question posed	Annual review		S. Hess	4/27/2020
1.3	7/21/2023	Errata formatting	Annual review		M. Walden	11/20/2023
2.0	7/01/2025	Added violation timeframe	Annual Review		M.Walden	

SUMMARY OF HISTORY LOG

General Overview

The Summary Table provides a high-level view of the changes made throughout the document.

Summary Table

PROCESS	SECTION	ACTION/CHANGES	DATE
Outage Coordination	Throughout	Bullet and numbering changes	07/10/2018
NERC Transmission Availability Data System (TADS)	Throughout	Indentation changes	07/10/2018
Event Reporting	Throughout	Indentation changes	07/10/2018
Contract Exhibit Update Process	Exhibit A, “BES Equipment Subject to this Agreements Update”	Added new language to the “Exhibit A, BES Equipment Subject to this Agreement Updates” section regarding customer coordination and customer notice of change. Language also aligns with the TPIP document.	07/10/2018
Cost Allocation	Process Steps	Added a new step 2 for seeking organization/management validation for what their resource needs are for the upcoming calendar year. Errata changes.	07/10/2018
Cost Reconcilliation	Process Steps	Errata changes. Numbering changes. Changed language in section “Process Steps/Step 4” for seeking organization/management validation for what their resourcee needs are for the current calendar year.	07/10/2018
TOP Annual Letter Process	Throughout	Indentation changes	07/10/2018
TOPIC Review and Update Process	General Overview; Transmission Operator Integrated Compendium (TOPIC) Definition	Changed language under “General Overview” for what drives changes in the TOPIC. Added new language for “Version Control Of The TOPIC.” Language changes/additions align with TPIP.	07/10/2018
Event Reporting	Real-Time Operating Procedures	Numbered each section to make easier reference to.	01/31/2019
General Responsibilites	EOP-004-4	Added new steps and clarity to event reporting per change to standard.	01/31/2019
Version control of the TOPIC	TOPIC Review and Update Process	Added in what drives a change to the TOPIC to align language with the TP –TPIP document	01/31/2019

Real Time Operating Procedures	Real-Time Operating Procedures	New template language for Operating Instructions issued by BPA	03/27/2019
Cost Allocation	Cost Allocation	Added in NERC/BPA's line definition	07/12/2019
Failure to Comply	Failure to Comply	Created Process	06/18/2019
Outage Coordination	Outage Coordination	RC timeline	08/01/2019
Line Definition	Cost Allocation	Removed NERC/BPA's line definition	10/02/2019
Protection System Oversight	Protection System Oversight	Removed entire section due to the PRC-001 standard retired on March 31, 2021	03/11/2021
Real-Time Operating Procedures	Real-Time Operating Procedures	Operations added events 28 and 29	03/23/2021
Event Reporting	Event Reporting	Added 'In addition, copies of Customer reports should be emailed to disturbances@bpa.gov ' under bullet 4.	04/28/2021
Process creation	TOP BPA – Customer Coordination Sessions	Initial process creation	8/6/2021
CIP	Low BCS to High BCS	Removed legacy reference to CIP concerns on a low BCS connecting to BPA that could potentially change the low BCS designation	6/14/2022
Outage Coordination	Gen Overview	Clarification on which section of the Outage Policy provides the list of equipment and their associated timelines	11/20/2023
Outage Coordination	Gen Responsibilities	Added in a third bullet under General Responsibilities Defined outage windows (mid-range) etc. Added Outage Type section	
TADs	Purpose	Updated link to correct Outage Reports section Removed Coordinated Universal Time due to BPA not using that reporting timeframe	
Emergency Operations	Purpose	Initial process creation	
System Equipment Change Process	Overview	Broke out sections for easier reference	
Cost Allocation	General Overview & Process Steps	2025: BPA audited the TOP Cost Allocation rate and determined that BPA had not been collecting for FTE overheads. The TOP Rate has been adjusted accordingly. For 2025 this resulted in a 30% increase	
Cost Reconciliation	Process Setups	Modified TOP Rate calculation to remove variables and align with BPA FTE overhead rates	
Customer Coordination Sessions	Semi Annual Coordination	Added additional session when significant management has changed verbiage	

Failure to Comply	General Overview	Added violation timeframe	
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Summary Of Log History Version History

Version	Review Date	Description of Changes	Purpose	Reviewed By	Approved By	Approved Date
1.0	07/10/2018	Added a “Summary of History Log” to track overall changes within the TOPIC document.	Establishing baseline		C. Higgins	07/10/2018
2.0	01/31/2019	Added in new history for Version 4	Annual review		M. Walden	
3.0	07/31/2019	Added in failure to comply and line definitions. Also, updated new RC outage timeline.	Content changes		M. Walden	08/01/2019
3.1	10/02/2019	Removed NERC/BPA’s line definition	Minor changes		M. Walden	10/02/2019
4.0	03/11/2021	Removed Protection System Oversight Section due to PRC-001 retired on 3/31/2021, Added events 28 and 29 to Real Time Operating Procedures	Annual review		M. Granath	05/05/2021
5.0	04/28/2021	In the Event Reporting Section, added ‘In addition, copies of Customer reports should be emailed to disturbances@bpa.gov ’ under bullet 4.	Content changes		S. Hess	05/05/2021
6.0	8/6/2021	Initial process creation for TOP BPA – Customer Coordination Sessions	Annual review		L. Cardoza	8/6/2021
7.0	6/10/2022	Changed language of “Control Center” To “dispatch center” throughout document and added definition used for TOPIC purposes. Updated Outage Coordination table 6500.17e to 6500.15e. Modified system equipment change process:	Annual review		T. Daufel	

		<ul style="list-style-type: none"> • Changed from 160 to 210 days to accommodate RC West requirements • Modified language to account for ‘emergency’ projects “210 days and/or as formally agreed” • Modified the equipment change form to capture: “Altering the status of a Transmission dispatch center to a NERC defined Control Center” and “Change in equipment ratings?” <p>Explicitly called out reviewing equipment categorization in Appendix 2 of the BPA Outage Coordination Policy</p> <p>Removed legacy reference to CIP concerns on a low BCS connecting to BPA that could potentially change the low BCS designation</p>				
7.1	04/06/2023	Corrected grammar, capitalization, punctuation, and spacing. Added additional instructions for external website navigation.	Minor changes		L. Cardoza	04/06/2023

8.0	7/28/2023	<p>Scrubbed all Version blocks to be consistent with approved formatting</p> <p>Added Section 5C letter instructions</p> <p>Section Creation, added language to include non-BES equipment, added RC West Late Notification process</p> <p>Moved Exhibit A update to its own section</p> <p>Clarified any changes that impact the configuration or function of the BES transmission system</p> <p>Added in fiber as an example of equipment that isn't BES but could affect BES assets</p> <p>Adding in specificity on BPA not switching for Customer planned work</p> <p>Consistency with standards</p> <p>Clarification on Outage Policy for associated equipment that may affect BES</p>	Annual review		M.Walden	11/20/2023
9.0	9/4/2024	<p>Expanded on third-party coordination by adding in bullets 3 & 4</p> <p>Changed 210-day requirement to 235-days</p> <p>Added in BES Determination section</p> <p>Added communication equipment as potentially impacted equipment for BES</p> <p>Updated outdated years as examples of billing</p> <p>Agenda Updated:</p> <p>Removed OMS reference in agenda</p> <p>Removed Terminology & Nomenclature</p>	Annual review		M.Walden	

		<p>Added in 'shared & impacted' on protection schemes</p> <p>Added in RTSE Update</p> <p>Moved RAS/DSO section to bottom of agenda</p> <p>Added Additional Operational Discussion Points</p>				
10.0	9/25/2025	<p>Added in a third bullet under General Responsibilities</p> <p>Defined outage windows (mid-range) etc.</p> <p>Added Outage Type section</p> <p>Updated link to correct Outage Reports section</p> <p>Removed Coordinated Universal Time due to BPA not using that reporting timeframe</p> <p>Initial process creation</p> <p>Broke out sections for easier reference</p> <p>2025: BPA audited the TOP Cost Allocation rate and determined that BPA had not been collecting for FTE overheads. The TOP Rate has been adjusted accordingly. For 2025 this resulted in a 30% increase</p> <p>Modified TOP Rate calculation to remove variables and align with BPA FTE overhead rates</p> <p>Added additional session when significant management has changed verbiage</p>	Annual Review		M.Walden	

		Added violation timeframe				
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