



Western Resource Adequacy Program

202 Sharing Calculation: Participant Inputs

200 – Operations



Revision History

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Table of Contents

| 1. Ir | stroduction3 | | | |
|--------------------|--|--|--|--|
| 1.1. | Intended Audience3 | | | |
| 1.2. | What You Will Find in This Manual3 | | | |
| 1.3. | Purpose3 | | | |
| 1.4. | Definitions3 | | | |
| 2. Ba | ackground4 | | | |
| 3. Co | omponents of the Sharing Calculation equation4 | | | |
| 4. Ir | puts from Forward Showing Submittal7 | | | |
| 5. Ir | puts from the Operations Program7 | | | |
| 5.1. | Load Forecast | | | |
| 5.2. | Forced Outages Forecast8 | | | |
| 5.3. | Forecasted ROR9 | | | |
| 5.4. | Forecasted Wind Output10 | | | |
| 5.5. | Forecasted Solar Output10 | | | |
| 5.6. | Contingency Reserves Obligation11 | | | |
| 5.7. | Uncertainty Factor11 | | | |
| 6. Fo | precasting Methodology and Data Evaluation11 | | | |
| 7. Ir | put Data Files12 | | | |
| 7.1. | Multi-Day File12 | | | |
| 7.2. | Operating Day File12 | | | |
| 7.3. | Point Limit File13 | | | |
| 7.4. | Point to Point Limit File13 | | | |
| 7.5. | Voluntary Holdback File13 | | | |
| 7.6. | Actuals File14 | | | |
| 8. Sł | naring Calculation Results14 | | | |
| 9. Planned Outages | | | | |
| Appen | dix A – Data Attestation defined. | | | |



1 Introduction

The Participant Sharing Calculation Inputs Business Practice Manual (BPM 202) outlines data inputs submitted by Participants in the Operations Program and used in the Sharing Calculation to identify any hour in which a Participant is forecast to have a capacity deficit and other Participants are forecast to have a capacity surplus (a Sharing Event). BPM 202 describes each of these Participant inputs and explains the Sharing Calculation.

1.1 Intended Audience

BPM 202 is intended for individuals or entities that are interested in or currently participating in the Western Resource Adequacy Program (WRAP). BPM 202 is particularly useful for those that support and have responsibility for the Operations Program on a day-to-day basis. This could include trading and scheduling staff, front-office technology and systems support staff, or other similar roles.

1.2 What You Will Find in This Manual

BPM 202 contains an explanation on all inputs to the Sharing Calculation that Participants submit for the Operations Program.

1.3 Purpose

The purpose of BPM 202 is to explain Participant-supplied inputs to the Sharing Calculation and how they are used in the Operations Program.

1.4 Definitions

All capitalized terms have the meaning as put forth in the Tariff definitions. Any capitalized terms not found in the Tariff that are specific to BPM 202 will be defined in this section:

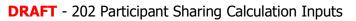
Contingency Reserves Adjustment: As defined in BPM 103 FS Capacity Requirement.

Contingency Reserves Obligation (CRO): The amount of contingency reserves the Participant is carrying during the operating hour equal to:

i) 3% of Load Forecast for which the Participant is the WRAP LRE and maintains the contingency reserve requirement

 ii) plus 3% of load for which the Participant is not the WRAP LRE but has assumed an obligation to carry Contingency Reserve through a contractual arrangement
iii) plus 3% of generation used to meet any load for which the Participant is the LRE and maintains its contingency reserve requirement

iv) plus 3% of generation utilized to meet WRAP Load for which the Participant is not the LRE but has assumed an obligation to carry Contingency Reserve through a contractual arrangement.





Forced Outage: A generating unit's **Outages:** For thermal resources, Storage Hydro Qualifying Resources (using QCC MWs) or Energy Storage Resources, the immediate reduction in capacity, output, or removal of service due to an emergency, unanticipated failure, <u>curtailment or derate of network service</u>, firm or conditional firm transmission or other cause that is beyond the control of the owner or operator of the <u>unit</u>.resource.

Operations Program Capacity Need: A Sharing Calculation component that refers to the total hourly capacity requirement a Participant has forecasted in the Operations Program. The Hourly Capacity Need is the sum of a Participant's Load Forecast adjusted for Demand Response Capacity Resource (i.e. load reduction) plus the hourly forecasted CRO and the Uncertainty Factor.

Performance Adjustments: A Sharing Calculation component that is the sum of variances of over and under performance for hourly forecasts of Run-of-River, wind and solar resources and the net hourly value of Forced Outages relative to the monthly value submitted in the Participant's FS Submittal.

Sharing Result: The result of the Sharing Calculation for any given hour and expressed in MW in the Operations Program horizon. If a Sharing Result is positive, this indicates a surplus and if the Sharing Result is negative, this indicates a deficit. If the Sharing Result is equal to zero, this indicates a neutral position that is neither a surplus nor a deficit.

Program Interface Tool (PIT): As defined in BPM 201 Operations Program Timeline.

2 Background

Participants are required to submit specific data for the Forward Showing (see *BPM 108 FSForward Showing Submittal ProcedureProcess*). Some of these data are also used as inputs into the Operations Program. For example, VERs, ROR, Contingency Reserves, and Forced Outages in the FS Submittal are compared to nearer term forecasts submitted during the Operations Program. This leads to a comparison between near term forecast values in the Operations Program and the values submitted in the Forward Showing. This results, resulting in delta values for these various the inputs that are used in the Sharing Calculation. BPM 202 describes the required Participant inputs to the Sharing Calculation.

3 Components of the Sharing Calculation equation

The Sharing Calculation compares each Participant's FS Capacity Requirement (see *BPM 103 FSForward Showing Capacity Requirement*) - adjusted for Forced Outages and hourly forecasts of resource availability, resource performance, load, and Contingency Reserves relative to the FS Submittal - to each Participant's capacity need for each hour in the Multi-





Day-Ahead Assessment, Preschedule Day, and Operating Day. The values submitted by the Participant for each hour are <u>relativecompared</u> to the values submitted in the Forward Showing. For a given hour the Sharing Calculation identifies Sharing Events in which any Participants are forecast to have capacity <u>deficitsdeficiencies</u>. Additional program (i.e., non-Participant) inputs to the Sharing Calculation, such as the Uncertainty Factor, are described in *BPM 203 Program Sharing Calculation Inputs*. The Sharing Calculation is defined as:

| Equation 1 – Simplified Sharing Calculation | | |
|---|--|--|
| Sharing Calculation | | |
| = FS Capacity Requirement – Operations Program Capacity Need | | |
| + Performance Adjustments | | |
| where | | |
| FS Capacity Requirement | | |
| = (P50 Peak Load Forecast – Demand Response Load Modifier) * (1 | | |
| + FSPRM) + Contingency Reserve Adjustment | | |
| and | | |
| Operations Program Capacity Need | | |
| = Load Forecast – Demand Response Capacity Resources | | |
| + Contingency Reserve Obligation | | |
| + Uncertainty Factor | | |
| and | | |
| Performance Adjustments | | |
| $= \Delta Forced Outages + \Delta RoR Performance + \Delta VER Performance$ | | |
| Where: | | |

Demand Response Capacity Resource, as defined in the Tariff, refers to a capacity resource with a demonstrated capability to provide a reduction in load or otherwise control load. Its value is treated as a reduction to the hourly Load Forecast in the Operations Capacity Need component of the Sharing Calculation.

Demand Response Load Modifier, as described in the Tariff, refers to Demand Response that has not been incorporated into the load profile and is not intended to be used as a capacity resource to meet the FS Capacity Requirement.

Load Forecast is the hourly forecast of a Participant's WRAP load, expressed in MW, and to be submitted for each operating hour.





Uncertainty Factor, as described in the Tariff, is an input to the Sharing Calculation and is meant to account for the variances between forecasts of load, VERs, and Run-of-River Qualifying Resources for each operating hour on the Preschedule Day and the actual load and resource performance during such hour on the Operating Day. See *BPM 203 Program Sharing Calculation Inputs* for more details.

Δ *Forced Outages* refers, for any given operating hour, to the sum of:

- any change in Forced Outages of any of the thermal resources included in a Participant's Portfolio QCC, relative to the Forced Outages assumed in the FS Submittal by application of the Forced Outage Factor;
- (ii) any change in Forced Outages of any of the Storage Hydro Qualifying Resources relative to the Forced Outages assumed in the calculation of a Participant's Resource QCC (expressed as forced QCC MWs);
- (iii) any reduction in output capability of any of the Energy Storage Resources due to equipment failure or protection. In the first five (5) hours the Forced Outages MWs that can be claimed are equal to [(charge MW x duration)/ 5]. For all hours beyond five hours, the Forced Outages MW amount that can be claimed for an Energy Storage Resource shall not be greater than the monthly QCC.
- (iii)(iv) any reduction in capacity of a Participant's Portfolio QCC resulting from constraints on firm transmission service rights.

A ROR Performance refers to any change, for any given operating hour, in expected performance of any of the ROR in the Participant's Portfolio QCC relative to the QCC of that Qualifying Resource.

A **VER Performance** refers to any change, for the subject hour, in expected performance of the VERs in the Participant's Portfolio QCC relative to the QCC of that Qualifying Resource. As defined in the Tariff, VERs are resources powered by a renewable energy source that cannot be stored by the facility owner or operator and that has variability that is beyond the control of the facility owner or operator, including but not limited to a solar or wind resource.

In summary:

Equation 2 – **Detailed Sharing Calculation**

Sharing Calculation =

[(P50 Peak Load Forecast – Demand Response Load Modifier) * (1 + FSPRM) + Contingency Reserve Adjustment]





+ [Δ Forced Outages + Δ RoR Performance + Δ VER Performance]

4 Inputs from Forward Showing Submittal

The Operations Program relies on data submitted in the Forward Showing <u>Submittal (FS</u> <u>Submittal)</u> that includes monthly values of the following:

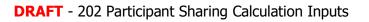
- (i) P50 Peak Load Forecast
- (ii) FSPRM
- (iii) Demand Response Load Modifier
- (iv) Forced Outages
- (v) ROR QCC
- (vi) Solar QCC
- (vii) Wind QCC
- (viii) Contingency Reserves Adjustments

In addition, for resource-specific contractual agreements included in the FS Submittal such as "slice" contracts, adjustments are applied to the calculation of Forced Outages and Over/Under Performance. These adjustments are accounted for in data sent to the Operations Program, prior to the start of each Binding Season.

5 Inputs from the Operations Program

In the Operations Program, Participants <u>will beare</u> required to prepare and provide data in a format specified by the Program Operator. These data must adhere to a submission schedule to allow the Sharing Calculations to run with as up-to-date and complete data as possible. The Program Operator <u>will beis</u> responsible for the transfer of input data that <u>will beis</u> processed according to a predefined schedule to inform Participants of any Sharing Events. A user interface <u>will provideprovides</u> Participants the means to view input upload status and error details, notifications and alerts, and Sharing Calculation results<u>– this is</u> <u>called the Program Interface Tool (PIT) or Ops Client.</u>

Moreover, it is the responsibility of the Program Operator to develop, test, implement and maintain the form and format of all inputs and to ensure the latest version of these are made available to Participants. The Program Operator <u>will</u> also <u>ensureensures</u> that Participants are given access to portals, links, and/or any other data upload protocols prior to the start of any Binding Season to allow successful participation in the Operations Program. Any procedures, guides or reference materials related to the input and data file specification is are posted on the WPP website.





The Sharing Calculation, which is the mechanism to determine whether a participant is surplus or deficit on any given hour of the operating day, relies on data submitted in the Operations Program by the Participant which includes hourly values of the following:

- (i) Load Forecast
- (ii) Forced Outages
- (iii) Forecasted ROR output
- (iv) Forecasted wind output
- (v) Forecasted solar output
- (vi) Contingency Reserves Obligation
- (vii) Uncertainty Factor

The Sharing Calculation also includes an Uncertainty Factor as a term in the equation. The Uncertainty Factor is not a Participant provided value and is described in more detail in BPM 203 Program Sharing Calculation Inputs.

5.1 Load Forecast

This The Load Forecast is the Participant's hourly forecast of its WRAP load, expressed in MW, submitted for each operating hour. The data submitted for Load Forecasts shall account for the total load/demand the Participant is responsible for serving under WRAP and be sourced from the same data that was utilized in the FS Submittal. If there are additional third-party loads or excluded loads within a Participant's Balancing Authority Area (BAA), these shall not be accounted for in the Load Forecasts submitted in the Operations Program.

5.2 Participants shall determine their Load Forced Outages Forecast-using either:

(i) a third-party forecasting tool/software or

(ii)(i)_a proprietarily developed algorithmic forecasting tool.

Participants shall validate the methodology of their forecasting tools with the Program Administrator in advance of the Binding Season. The methodology shall include provisions demonstrating how the forecasts are calculated and the Participant shall attest that (i) data submitted in the Operations Program is true and accurate given the information a Participant has available at the time of submission, and (ii) that the data and inputs necessary to run the Sharing Calculation have not been modified with the intent of increasing a Participant's access to Holdback Capacity in the Operations Program or limiting their requirement to provide Holdback Capacity in the Operations Program (see Appendix A).

The Program Administrator/Program Operator will evaluate on a regular basis forecast performance and deviations to identify and mitigate inaccurate data.

DRAFT - 202 Participant Sharing Calculation Inputs



4.1. Forced Outage Forecast

This is the hourly forecast of a Participant's Forced Outage The Forced Outage is the hourly forecast of a Participant's Forced Outages (including derate), expressed in MW, and to be submitted for each operating hour. The data submitted for Forced OutageOutages forecasts shall account for MW reduction in:

- 1. Total portfolio generating capability where the portfolio is defined as:
 - a. Any resource in the Forward Showing for which the Program Operator has calculated an Equivalent Forced Outage Factor (EFOF) or the Participant has supplied a Forced Outage Factor.
 - b. Any purchase contract in the Forward Showing where the Participant has assumed the outage risk as the purchaser. It is the responsibility of the Participant to work with the seller to determine how much of an outage is attributable to the Participant's contract.
- 2. A curtailment or derate of network service, firm or conditional firm transmission being utilized to bring resources and/or contracts shown in the Forward Showing Submittal to load. Curtailments and derates to non-firm transmission shall not be accounted for in the Forced <u>OutageOutages</u> forecasts.

For an outage or derate to be claimed in the Operations Program for a given hour it must be due to an event type as defined in NERC's Generation Availability Data System (GADS).

Additionally, the Forced OutageOutages or derate must result in an actual loss of generating capability. If, for example, the outage is on a hydro unit and there is insufficient water in storage or inflow to utilize the lost capacity then the outage may not be claimed.

NOTE: Specific consideration for must-take Thermal Resources:

Due to limited dispatchability and dependency on fuel supply, must-take Thermal Resources are not given a Forced Outage Factor. Any derate, outage, or transmission curtailment resulting in a reduction of generation capability for must-<u>-</u>take resources, shall not be accounted for and <u>shall be</u> excluded from Forced <u>OutageOutages</u> forecasts.

5.3 Forecasted ROR

This The ROR forecast is the hourly forecast of a Participant's ROR performance, expressed in MW, and to be submitted for each operating hour. The data submitted for ROR forecasts shall account for the forecasted MW output on any given operating hour for the Participants' ROR included in the FS Submittal.

Participants shall determine their ROR performance forecast using either:





(i) a third-party forecasting tool/software or

(ii) a proprietarily developed algorithmic forecasting tool

The Program Administrator/Program Operator will evaluate on a regular basis forecast performance and deviations to identify and mitigate inaccurate data.

NOTE: Unless specified under a purchase contract listed in a Participant's FS Submittal per *BPM 106 Qualifying Contracts* (i.e. JCAF), a Participant with ROR will be responsible for over/under performance of ROR forecasts.

5.4 Forecasted wind output Wind Output

This The wind resource forecast is the hourly forecast of a Participant's wind resources resource performance, expressed in MW, and to be submitted for each operating hour. The data submitted for wind resource forecasts shall account for the forecasted MW output on any given operating hour for the Participant's wind resources included in the FS Submittal.

Participants shall determine their wind resource performance forecast using either:

(i) a third-party forecasting tool/software or

(ii) a proprietarily developed algorithmic forecasting tool.

The Program Administrator/Program Operator will evaluate on a regular basis forecast performance and deviations to identify and mitigate inaccurate data.

NOTE: Unless otherwise specified under a purchase contract listed in the FS Submittal per *BPM 106 Qualifying Contracts* (i.e. JCAF), a Participant with wind resources will be responsible for over/under performance of wind resource forecasts.

5.5 Forecasted solar outputSolar Output

This The solar resource forecast is the hourly forecast of a Participant's solar resources performance, expressed in MW, and to be submitted for each operating hour. The data submitted for solar resource forecasts shall account for the forecasted MW output on any given operating hour for the Participants' solar resources included in the FS Submittal.

Participants shall determine their solar resource performance forecast using either:

(i) a third-party forecasting tool/software or

(ii) a proprietarily developed algorithmic forecasting tool.

The Program Administrator/Program Operator will evaluate on a regular basis forecast performance and deviations to identify and mitigate inaccurate data.



NOTE: Unless otherwise specified under a purchase contract listed in a Participant's FS Submittal per *BPM 106 Qualifying Contracts* (i.e. JCAF), a Participant with solar resources will be responsible for over/under performance of solar resources forecasts.

5.6 Contingency Reserves Obligation

As defined above, the CRO is the total amount of contingency reserves the Participant is carrying during the operating hour.

The data submitted for CRO is intended to help ensure that sufficient capacity is withheld to cover a Participant's CRO in MW for any given hour.

5.7 Uncertainty Factor

The Uncertainty Factor is meant to account for the variances between forecasts of load, VERs, and Run-of-River Qualifying Resources for each operating hour on the Preschedule Day and the actual load and resource performance during such hour on the Operating Day. The Uncertainty Factor helps ensure that Participants retain capacity to account for near-term forecast error that would underestimate capacity needs, overestimate generation capability/availability;-__(i.e., variances in the upward direction for load and variances in the downward direction for resource performance-_). See more details in *BPM 203 Program Sharing Calculation Inputs.*

6 Forecasting Methodology and Data Evaluation

There are two (2) types of forecast methodologies a Participant may use for forecasting Load, ROR, wind output and solar output:

- (i) a third-party forecasting tool/software or
- (ii) a proprietarily developed algorithmic forecasting tool.

A Participant may elect to use one or both of these methodologies, but in any case, is required to submit to the Program Administrator, at least 90 days prior to the start of its first Binding Season, a narrative description of the methodology used for forecasting. This narrative shall include at minimum and without limitation:

- Type of methodology (i.e., third-party or proprietarily developed)
- Description of methodology
- List of data types forecasted using the methodology submitted in the Operations Program (i.e., Load, ROR, wind output and solar output)
- Description of limitations of methodology, particularly describing any inability to manually override forecast data and inputs to the Sharing Calculation. The purpose here is to demonstrate that the Participant is not able to manually modify forecasts with the intent of increasing a Participant's access to Holdback Capacity





in the Operations Program or limiting their requirement to provide Holdback Capacity in the Operations Program.

In the event there is change in methodology, the Participant must provide an updated narrative description to the Program Administrator as soon as practicable.

In addition, the Program Administrator and the Program Operator shall monitor and evaluate on a regular basis forecast data performance and ensure feedback is provided back to Participants to help identify inaccurate data.

67_Input Data Files

6.1<u>7.1</u> Multi-Day file File

The data requested in the Multi-Day (MD) file is necessary to run the Operations Program Sharing Calculation, which is the mechanism to determine whether a Participant is surplus or deficit on any given hour of the Operating Day.

MD files mayshall include up to seven (7) Operating Days' worth of forecast data (i.e. 168 operating hours of data).

Per *BPM 201 Operations Program Timeline*, Participants are required to submit a MD file no later than 05:20 AM Pacific Prevailing Time (PPT) on the Preschedule Day and according the WECC scheduling calendar.

6.27.2 Operating Day file File

The data requested in the Operating Day files (OD) is mainly used for informational purposes in the Operations Program. As the binding obligations are set toon the Preschedule Day under the Tariff, input data submitted in the OD files is used to post updated Sharing <u>ResultsCalculation results</u>, hour by hour, for the Operating Day. These updated Sharing <u>ResultsCalculation results</u> help inform a Participant about its position relative to the Sharing <u>ResultCalculation result</u> posted on the Preschedule Day₇.

OD files include at least twenty-four (24) <u>(or twenty-three (23) on a daylight savings time</u> <u>day)</u> operating hours' worth of <u>forecast</u> data and are to be submitted every hour <u>duringthroughout</u> the <u>Operating DayBinding Season</u>.

Per *BPM 201 Operations Program Timeline*, Participants are required to submit an Operating Day file no later than one hundred and twenty (120) minutes prior to the start of any given operating hour.





6.3<u>7.3</u>Point Limit File

The data requested in the Point Limit (PL) files is to inform the Operations Program about the transmission points a Participant can deliver to and take receipt from other Participants. PL file inputs are essential to determine allocation and deliverability of any Holdback Requirement in a Subregion without a central hub.

PL files mayshall include up toat least twenty-four (24) (or twenty-five (25) on a daylight savings time day) operating hours' worth of data including but not limited to transmission points for delivery of any Holdback Requirement and order of priority.

Per *BPM 201 Operations Program Timeline,* Participants shall ensure the PL files are submitted after <u>505</u>:20 <u>AM (PPT)</u> when the Sharing <u>ResultsCalculation results</u> post and before <u>606</u>:35 <u>AM (PPT)</u>. Data submitted in the PL files serve as input needed for optimization and validation in the Operations Program.

6.47.4 Point to Point Limit File

The Operations Program is designed to optimize allocation and deliverability of any Holdback Requirement. Given potential transmission constraints within a <u>subregionSubregion</u> and the desire to share as much diversity as possible, the data requested in the Point-to-Point Limit (PTPL) is to inform the Operations Program about the transmission points where wheeling capability may occur. Inputs from the PTPL files are essential to determine a Participant's ability and order of priority to deliver any Holdback Requirement on defined transmission wheeling paths and inter-<u>regionSubregion</u> transmission connectivity.

PTPL files mayshall include up to at least twenty-four (24) (or twenty-five (25) on a daylight savings time day) operating hours' worth of data including but not limited to point-to-point transmission wheeling paths and order of priority.

Per *BPM 201 Operations Program Timeline*, Participants shall ensure the PTPL files are submitted after <u>505</u>:20 <u>AM (PPT)</u> when the Sharing <u>ResultsCalculation results</u> post and before <u>606</u>:35 <u>AM (PPT)</u>. Data submitted in the PTPL files serve as input needed for optimization and validation in the Operations Program.

6.57.5 Voluntary Holdback File

This The Voluntary Holdback data submission allows Participants to indicate to the WRAP the amount of holdback Holdback Capacity that they would like to make available in excess of the surplus resulting from the Sharing Calculation. The intent of this submission is to indicate the MW value that willcan be made available. The points at which the additional





surplus / Voluntary Holdback wouldcould be made available wouldmust be foundincluded in the Point Limits File.

The data requested in the Voluntary Holdback (VH) files is to inform the Operations Program about any additional capacity made available to the <u>subregionSubregion</u> for any given hour. Input from the VH files is essential to determine allocation and prioritization of any Holdback Requirement.

Per *BPM 201 Operations Program Timeline*, Participants shall ensure the VH files are submitted after <u>505</u>:20 <u>AM (PPT)</u> when the Sharing <u>ResultsCalculation results</u> are posted and before <u>606</u>:35 <u>AM (PPT)</u>. Data submitted in the VH files serve as input needed for optimization and validation, particularly for any given Sharing Event.

6.67.6 Actuals file File

The data requested in the Actuals (AC) files is after-the-fact in nature - equivalent to the data submitted in the MD and OD files - reflecting the actual values of forecasts.the data that was forecasted. The data collected from AC files is not a Sharing Calculation input. The Program Administrator and Program Operator use AC files data for analysis and reporting, particularly for data accuracy and performance.

Participants shall ensure that AC files are submitted no later than seven (7) Days or 168 hours after any given operating hour.

78 Sharing Calculation of Sharing Results

The Sharing Calculation relies on inputs from both the Forward Showing and Operations Program. The Sharing ResultCalculation result for any operating hour is calculated using the Sharing Calculation equation and its inputs listed in the sections above.

If a Sharing <u>ResultCalculation result</u> for any given hour is positive, this indicates the Participant has surplus capacity.

Conversely, if a Sharing Result<u>Calculation result</u> for any given hour is negative, this indicates the Participant is capacity deficient, and therefore would constitute a potential Sharing Event.

<u>NOTE: It is important to remember that the The</u> forecast data submitted for each operating hour <u>are calculated relative</u> compared to the values assumed in the FS Submittal. This means the values submitted for each operating hour should use the same assumptions and the same general source data as the values submitted in the Forward Showing. Any



Western Resource Adequacy Program Business Practice Manual



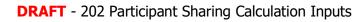
mismatch can result in a Participant being erroneously identified as surplus or deficit deficient. A Participant's ability to ensure that the Forward Showing and the Operations Program data submissions align with one another will streamline testing and trials and maximize both individual and group benefits.

89 Planned Outages

In the FS Submittal, Participants are required to provide information on all Qualifying Resources that are currently out of service with a scheduled return date that falls during or after the Binding Season. Capacity associated with such resources is then deducted from Participants' Portfolio QCC to ensure no credit is granted for such resources during the planned outage.

The aggregate of any additional outages that are planned to occur during the Binding Season but have not yet begun at <u>the</u> FS Submittal deadline must be within the Participant's remaining surplus or replaced with other supply. <u>If a Participant takes a</u> <u>planned outage during the Binding Season, they are responsible for backfilling for the</u> <u>entirety of the reduction in capacity and should submit zero Forced Outage MWs for that</u> <u>resource during the period of the planned outage.</u>

A planned outage shall not justify a waiver of or exception to a Participant's holdback or energy delivery obligations under the Tariff. <u>Participants will procure It is</u> the <u>Participant's</u> <u>responsibility to ensure</u> necessary capacity <u>or energy is available</u> to meet the Operations Program requirements, regardless of planned outage schedules or FS Submittal acceptance. In addition, planned outages MW amounts will not be included in the Forced <u>OutageOutages</u> hourly data submitted in the Operations Program. <u>Furthermore, if a</u> planned outage that was included in the FS Submittal ends earlier in the month than expected and then the resource becomes available, the Participant shall not include any Forced Outages MWs for that resource in the Operations.





Appendix A Data Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that (i) data submitted in the Operations Program is true and accurate given the information [Participant] had available at the time of submission, (ii) the data provided in the Operations Program utilizes the same type of data and assumptions as the data provided for the Forward Showing Program, and (iii) that the data and inputs necessary to run the Sharing Calculation have not been modified with the intent of increasing [Participant]'s access to Holdback Capacity in the Operations Program.

