WESTERN POWERPOOL

Western Resource Adequacy Program

201 Operations Program Timeline

200 - Operations

Revision History

Manual Number	Version	Description	Revised By	Date
201	0.1	RAPC Glance Version	Ryan Roy	3/15/2023
201	0.2	Public Comment Version	Ryan Roy	3/30/2023
201	0.3	RAPC & PRC Discussion	Ryan Roy	6/13/2023
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201 Operations Program Timeline

1. Introduction

The Operations Program Timeline Business Practice Manual (BPM 201) outlines the high-level activities and associating timing of those activities that occur for the period starting from seven Days prior to the Operating Day and ending on the Operating Day for each Operating Day of the Binding Season. Further details on each activity, such as data submission requirements, interactions with the Program Interface Tool, details of the Sharing Calculation, and details of the calculation of Holdback Requirement, are addressed in *BPM 202 Participant Sharing Calculation Inputs*, *BPM 203 Program Sharing Calculation Inputs*, *BPM 204 Holdback Requirement*, and *BPM 205 Energy Deployment*.

1.1. Intended Audience

BPM 201 is intended for Western Resource Adequacy Program (WRAP) Participants and other interested individuals or entities. BPM 201 is particularly useful for those individuals that are responsible for, and support, participation in the Operations Program on a Day-to-Day basis. This might include trading and scheduling staff, front-office technology and systems support staff, or others responsible for managing the short-term load resource balance.

1.2. What You Will Find in This Manual

This document includes three sections, which cover i) the period leading up to the Preschedule Day, ii) the Preschedule Day itself, and iii) the Operating Day.

1.3. Purpose

The purpose of BPM 201 is to provide an overview of the WRAP Operations Programs activities that may impact business processes or front-office activities of current or potential Participants. The activities and associated timings expand on the information provided in the Tariff.

1.4. Definitions

All capitalized terms that are not otherwise defined in BPM 201 or another BPM have the meaning set forth in the Tariff.

Program Interface Tool (PIT): The end-user, web-based technology solution that Participants will utilize to interact with the Operations Program. This may also be referred to as the WRAP Operations (Ops) Client.

2. Multi-Day-Ahead Assessment

The Operations Program includes a Multi-Day-Ahead Assessment which will look ahead at the next seven Operating Days. By 05:20 Pacific Prevailing Time (PPT) on each

Western Electric Coordinating Council (WECC) scheduling Day each Participant will submit to the Program Operator the inputs that are further described in *BPM 202 Participant Sharing Calculation Inputs*. Any procedures, guides or reference materials can be found in the Input Data File Specification Document located on the WPP website. The Program Operator will use the data submitted by Participants and any program defined inputs as described in *BPM 203 Program Sharing Calculation Inputs* to calculate a Sharing Calculation result for each Participant. This result is considered indicative for all Operating Days in the assessment window except those Days being scheduled on the current Preschedule Day. This information will be given to Participants through the Ops Client.

If the Multi-Day-Ahead Assessment indicates low risk of a potential Sharing Event, the Program Operator may consider early release of a portion, or all of the capacity forecasted to be surplus to a Participant's needs as indicated by a positive Sharing Calculation result. This process is further explained in *BPM 204 Holdback Requirement*. Additionally, if the Multi-Day-Ahead Assessment indicates the potential for a Sharing Event that exceeds the amount of forecasted surplus capacity, the Program Operator will notify the Participants that there is the potential for insufficient holdback to meet the total deficit as calculated by the Sharing Calculation. This allows Participants time to look for alternatives to better manage calculated deficiencies.

Figure 1 shows two examples of the timing associated with the Multi-Day-Ahead Assessment. This figure is developed from the perspective of the current Day and looks forward.

In example one the current Day is the first Friday on the timeline. Using information provided from Participants the Program Operator will conduct the Multi-Day-Ahead Assessment as described above. In this example the Multi-Day-Ahead Assessment window is from the first Saturday through the second Friday on the timeline. The first Day (Saturday) in the Multi-Day-Ahead Assessment is not of interest because the process of running the Sharing Calculation result and allocating Holdback Capacity has already been completed. The second and third Days (Sunday and Monday) represent the Days being scheduled and will potentially result in a Holdback Requirement. Days 4 through 7 are indicative and may change with subsequent updates to input data.

In the second example the current Day is the first Monday on the timeline. Using information provided from Participants the Program Operator will conduct the Multi-Day-Ahead Assessment as described above. In this example the Multi-Day-Ahead Assessment window is from the first Tuesday through the second Monday on the timeline. The first Day (Tuesday) represents the Day being scheduled and will

potentially result in a Holdback Requirement. Days 2 through 6 are indicative and may change with subsequent updates to input data.

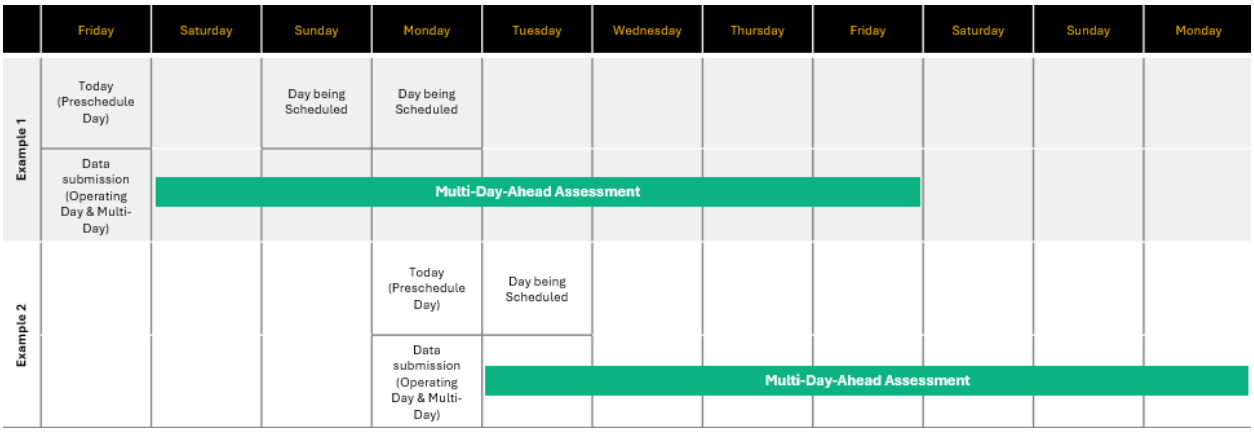

Figure 1. Indicative Multi-Day-Ahead Assessment and corresponding data submissions.

3. Preschedule Day

The Operations Program will respect the WECC Scheduling Calendar[1]. On the Preschedule Day, no later than 05:45 PPT, the Program Operator will execute the Sharing Calculation for each Operating Day being scheduled. The Preschedule Day Sharing Calculation utilizes the same inputs as the Multi-Day-Ahead Assessment and has the same submission deadline of 05:20 PPT. Exceptions to the default scheduling practices will be made for holidays and new months as specified by WECC. When the Preschedule Day is not the Day prior to the Operating Day, the Program Operator will rerun the Sharing Calculation each interim Day; these runs will not alter the Holdback Requirement set on the Preschedule Day. The Sharing Calculation assessment that is performed on the Preschedule Day sets the Holdback Requirement.

Between 05:20 PPT and 06:35 PPT Participants in any Subregion not containing a central transmission hub, shall provide the information in *BPM 202 Participant Sharing Calculation Inputs* Section 7.3 and 7.4 as required. At 06:00 PPT the results of the Sharing Calculation will be made available to Participants in the Ops Client. Between 06:00 PPT and 06:30 PPT Participants will have an opportunity to utilize the day-ahead

[1] https://www.wecc.org

market to address any deficit as calculated by the Sharing Calculation, and submit any Voluntary Holdback as defined in *BPM 202 Participant Sharing Calculation Inputs*. By 06:30 PPT deficit Participants will notify the Program Operator using the Ops Client of the amount of holdback they need from surplus Participants in the Operations Program. At 06:35 PPT the Program Operator will execute the allocation methodology that matches Participants. The results of the allocation will be posted to the Ops Client by 07:00 PPT and includes MW values and Participant matches. Between 07:00 PPT and 120 minutes before the operating hour surplus Participants can perform bilateral exchanges of holdback via Ops Client. The Preschedule Day is presented in Figure 2.

4. Operating Day

Participants provide their final submission of forecast data and finalize and notify the Program Operator of any bilateral exchanges of holdback 120 minutes before the operating hour. The Program Operator utilizes the forecast data to perform a final execution of the Sharing Calculation, which occurs 105 minutes before the operating hour. The results of the Sharing Calculation on the Operating Day are completed no later than 90 minutes before the operating hour and are intended to inform a Participant's decision about the amount of energy to be deployed. The calculation is indicative because the deficit Participant can claim up to the amount of holdback that they were allocated on the Preschedule Day. The Participant responsible for tagging the Energy Deployment must have the e-tag creation request completed by 60 minutes prior to the operating hour. Tagging and scheduling practices are described in *BPM 205 Energy Deployment*. The Preschedule Day and Operating Day Schedule are presented in Figure 2.

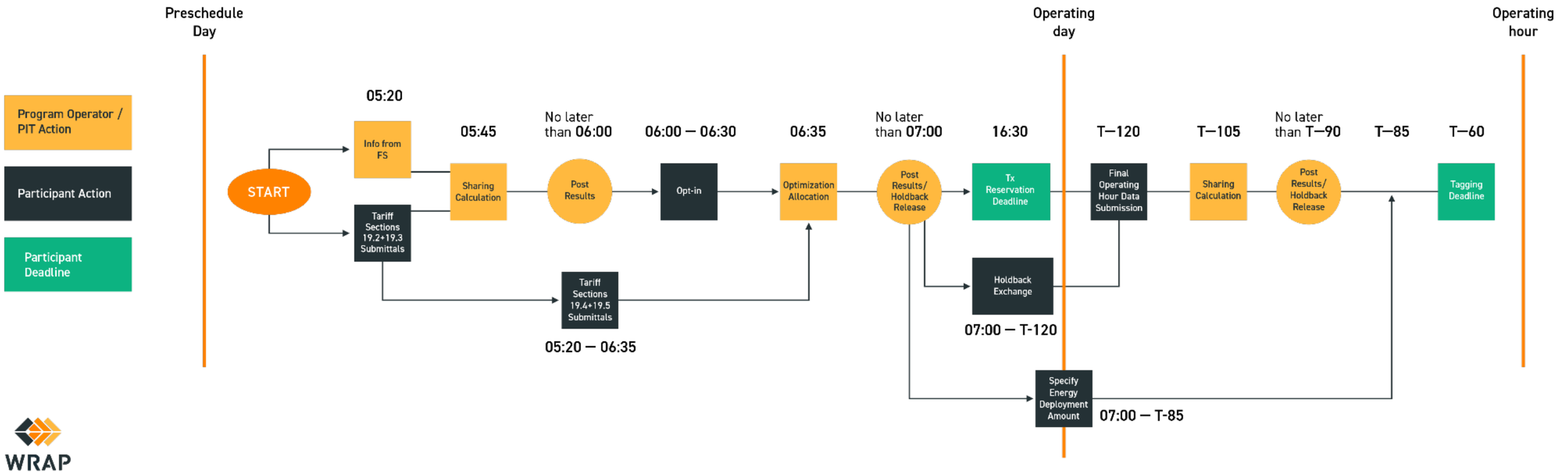

Figure 2. Preschedule Day and Operating Day Schedule.