

Western Resource Adequacy Program

Change Request Form

Lead Sponsor Information	
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Co-Sponsors Information (optional)	
Name:	Organization:
Phone Number:	Email:
Name:	Organization:
Phone Number:	Email:
Name:	Organization:
Phone Number:	Email:

Exigent Circumstance	
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Check one:

- ☐ A FERC-mandated amendment to the Tariff or the Business Practice Manuals
- ☐ An amendment to the Tariff or the Business Practice Manuals to address an immediate reliability impact
- ☒ An amendment to this Tariff or the Business Practice Manuals that the RAPC has determined has significant impacts to utility service (see Appendix A)

Type of Change Requested

Check one*:

- ☐ Correction *(i.e., revising erroneous language or language that needs clean-up for grammatical errors or inconsistency across governing documents - no changes to intent or policy)*
- ☐ Clarification *(i.e., revising language to better represent existing intent, no changes to functionality or policy)*
- ☒ Enhancement *(i.e., revising language to expand upon existing intent or functionality)*
- ☐ New Protocol, Business Practice, Criteria, Tariff *(i.e., new language to accommodate new functionality or policy not existing today)*
- ☒ Change *(i.e., a change in the existing policy – will replace an existing language)*
- ☐ Other *(i.e., changes that do not fall into the categories listed above)*

Description of Change

Provide a description of the issue*:

The current Capacity Critical Hours (CCH) methodology identifies a single set of CCH applicable across the entire WRAP Region. This methodology was developed more than five years ago based on the anticipated WRAP footprint and an expectation of a relatively interconnected regional system.

As the WRAP footprint and associated modeling have developed, a single regional set of CCH has become less representative of the conditions under which capacity is needed and available within the Program. The WRAP footprint has meaningful transmission constraints between areas, and other WRAP reliability modeling generally recognizes these limitations through the use of Subregions. The Program therefore does not assume that capacity available in one part of the footprint will necessarily be available to address a capacity need in all other parts of the footprint.

The proposed change would determine CCH separately for each WRAP Subregion. Load and applicable resource output would be aggregated at the Subregional level, and each Subregion would have its own set of CCH reflecting the periods of highest capacity need within that Subregion. This would better align the CCH methodology with the geographic framework used in other WRAP reliability modeling and with the transfer capability assumed between areas of the footprint.

The proposal would also replace the existing prescriptive Regional Interchange adjustment with a more general Additional Adjustments component. Additional adjustments could include regional interchange, impact of scarcity as determined by price, or other factors that materially

affect the determination of CCH. This would allow the methodology to account for relevant system conditions without relying on an interchange methodology developed for an earlier configuration of the WRAP footprint. The BPM language provides for documenting the assumptions used in the Additional Adjustments section and publishing that with the CCH dataset.

Any WRAP metrics and qualifying capacity contributions calculated after the effective date of this proposal will use the methodology provided here.

Please provide the following information if known and/or available.

1. Provide the specific document and language you would like changed:

The following documents will be updated:

- WRAP Tariff (pages 5, 50, 56)
- BPM 104 – Capacity Critical Hours
- BPM 108 – FS Submittal Process

2. Provide a suggestion for how language could be updated to address issue:

See redlines to the above documents attached.

Impact of Change

Describe the benefits that will be realized from this change*:

The proposed change would better align CCH determination with the geographic structure and transmission limitations reflected in other WRAP reliability modeling. Determining CCH by Subregion would reduce the potential for conditions in one area of the footprint to drive the accreditation of resources in another area where those resources would not be assumed available to meet the underlying capacity need. As a result, resource accreditation would more accurately reflect the times when resources are needed within the area in which they can reasonably be relied upon.

Please provide the following information if known and/or available.

1. Any data/information available that would characterize the importance or magnitude of the issue (allows for file attachments):

**WESTERN RESOURCE ADEQUACY PROGRAM
TARIFF
OF
NORTHWEST POWER POOL
D/B/A
WESTERN POWER POOL**

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SCHEDULE 1

WESTERN RESOURCE ADEQUACY PROGRAM ADMINISTRATIVE COST RECOVERY CHARGE

ATTACHMENT A

Western Resource Adequacy Program Agreement

PART I GENERAL PROVISIONS

1. Definitions

Unless the context otherwise specifies or requires, capitalized terms used in this Tariff shall have the respective meanings assigned herein for all purposes of this Tariff (such definitions to be equally applicable to both the singular and the plural forms of the terms defined). Unless otherwise specified, all references herein to Parts, Sections, Schedules, or Attachments, are to Parts, Sections, Schedules, or Attachments of this Tariff.

Applicable Price Index: A published index of wholesale electric prices, or Locational Marginal Prices duly calculated and posted by a FERC-regulated market operator, in either case as designated under Part III of this Tariff for use in connection with an identified Subregion.

Administration Charge or WRAP Administration Charge: The charge established under Schedule 1 of this Tariff for recovery of the costs of the WRAP.

Advance Assessment: Analyses and calculations of Participant load, resource, and other information performed in advance of each Binding Season as set forth in Part II of this Tariff.

Aggregate Capacity Deficiency: As to a Binding Season, the sum of the maximum Monthly Deficiencies of all Participants that submitted FS Submittals for such Binding Season, as determined following completion of the Cure Period for such Binding Season.

Available Transfer Capability ("ATC"): Transfer capability remaining in the physical transmission network for further commercial activity over and above already committed uses.

Balancing Authority: The responsible entity that integrates resource plans ahead of time, maintains demand and resource balance within a Balancing Authority Area, and supports interconnection frequency in real time.

Balancing Authority Area: The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.

Base Charge: A component of the WRAP Administration Charge as established under Schedule 1 of this Tariff.

Base Costs: Base Costs shall have the meaning provided in Schedule 1 of this Tariff.

Base Services Cost Centers: The cost centers comprising the Base Charge as defined in Schedule 1 of this Tariff.

Base Services Percentage: Base Services Percentage shall have the meaning provided in Schedule 1 of this Tariff.

Binding Season: The Summer Season or the Winter Season.

Board of Directors or Board: The Board of Directors of the Northwest Power Pool d/b/a Western Power Pool.

Business Day: Any Day that is a Monday through Friday, excluding any holiday established by United States federal authorities.

Business Practice Manuals: The manuals compiling further details, guidance, and information that are appropriate or beneficial to the implementation of the rules, requirements, and procedures established by this Tariff. Business Practice Manuals do not include such internal rules or procedures as the Western Power Pool may adopt for its operation and administration, including but not limited to any corporate by-laws of the Western Power Pool, or for any services or functions provided by the Western Power Pool other than those established by this Tariff.

CAISO: The California Independent System Operator Corporation, a California nonprofit public benefit corporation.

Capacity Benefit Margin: An amount of transmission transfer capability permitted under open access transmission rules to be reserved by load serving entities to ensure access to generation from interconnected systems to meet generation reliability requirements.

Capacity Critical Hours (“CCH”): Those hours during which the ~~net~~Subregional capacity need ~~for the WRAP Region~~ is expected to be above the 95th percentile, based on historical and synthesized data for the ~~WRAP Region~~Subregion’s gross load, variable energy resource performance, and interchange other adjustments.

Capacity Deficiency: A shortfall in a Participant’s Portfolio QCC relative to that Participant’s FS Capacity Requirement, as further defined in Part II of this Tariff.

Cash Working Capital Fund: Cash Working Capital Fund shall have the meaning provided in Schedule 1 of this Tariff.

Cash Working Capital Support Charge: A charge assessed to Participants under Schedule 1 of this Tariff to fund the Cash Working Capital Fund.

Cash Working Capital Support Charge Rate: Cash Working Capital Support Charge Rate shall have the meaning provided in Schedule 1 of this Tariff.

Central Hub: A designated point or named group of points on the transmission system within a Subregion identified by the Program Administrator that permits energy deliveries from multiple points within such Subregion.

Cost of New Entry (“CONE”): The estimated cost of new entry of a new peaking natural gas-fired generation facility, as determined under, and used in, Part II of this Tariff.

CONE Factor: A factor employed in the calculation of Deficiency Charges under Part II of this Tariff, to reflect whether, and the extent to which, the WRAP Region as a whole is expected to have a capacity deficiency during the period for which the Deficiency Charge is being calculated or a factor employed when a Participant has had repeated deficiencies in sequential years.

Committee of State Representatives (“COSR”): Committee of State Representatives, as established in Part I of this Tariff.

Contingency Reserve: As more fully described in the NERC WECC reliability standards, a quantity of reserves, consisting of generation, load, interchange, or other resources, that are deployable within ten minutes, equal to the greater of (i) the MW quantity of the loss of the most severe contingency and (ii) the megawatt quantity equal to the sum of 3% of hourly integrated load plus 3% of hourly integrated generation.

Critical Mass: *The threshold level of participation in a Subregion, as established in the Business Practice Manuals, below which each Participant of such Subregion may elect to participate as a Non-Binding Participant.*

Cumulative Delivery Failure Period: Any period of five consecutive years, ending with and including the most recent Energy Delivery Failure as of the time of determination of a possible Delivery Failure Charge.

Day: A calendar day.

Day-Ahead Price: A price for wholesale electric transactions designated as a day-ahead price in an Applicable Price Index.

Default Allocation Assessment: A charge assessed on non-defaulting Participants to recover the costs associated with a default by a Participant, as set forth in Part I of this Tariff.

Deficiency Charge: A charge assessed for a Capacity Deficiency or Transmission Deficiency, as set forth in Part II of this Tariff.

Delivery Failure Charge: A charge assessed for a Participant's failure to deliver a required Energy Deployment, as set forth in Part III of this Tariff.

Delivery Failure Charge Rate: A rate employed in the determination of a Delivery Failure Charge as more fully set forth in Part III of this Tariff.

Delivery Failure Factor: A factor used in the determination of a Delivery Failure Charge to recognize the relative severity or impact of an Energy Delivery Failure, as set forth in Part III of this Tariff.

Demand Response: A quantifiable load reduction or otherwise controllable load for which a Participant has two mutually-exclusive options to use to affect its FS Capacity Requirements in a FS for a Binding Season: (1) leave the effects of historically deployed demand response as part of its load provided for the Advance Assessment; or (2) utilize as a Demand Response Capacity Resource.

Demand Response Capacity Resource: A Qualifying Resource with a demonstrated capability to provide a reduction in demand or otherwise control load in accordance with the requirements established under Part II of this Tariff utilized to meet a Participant's FS Capacity Requirement.

Demonstrated FS Transmission: A Participant's demonstration in its Forward Showing Submittal that it has secured firm transmission service rights of the type and quantity sufficient to provide reasonable assurance, as of the time of the Forward Showing Submittal, of delivery of

capacity from the Qualifying Resources and the resources associated with the power purchase agreements in the Participant's Portfolio QCC.

Discounted Deficiency Charge: *A reduced Deficiency Charge during the Transition Period that enables a deficient Participant that demonstrates commercially reasonable efforts but is unable to cure deficiencies to access Operations Program capacity.*

Dual Benefit Cost Centers: Dual Benefit Cost Centers shall have the meaning provided in Schedule 1 of this Tariff.

Effective Load Carrying Capability ("ELCC"): A methodology employed to determine the Qualified Capacity Contribution of certain types of Qualifying Resources, as more fully set forth in Part II of this Tariff.

Energy Declined Settlement Price: A pricing component used as part of the calculation of settlements for Holdback Requirements and Energy Deployments under Part III of this Tariff.

Energy Delivery Failure: A failure by a Participant to provide an Energy Deployment assigned to such Participant under Part III of this Tariff.

Energy Deployment: A delivery of energy that a Participant is required to provide during an Operating Day, as set forth in Part III of this Tariff.

Energy Storage Resource: A resource, not including a Storage Hydro Qualifying Resource, designed to capture energy produced at one time for use at a later time.

Excused Transition Deficit: A Participant's inability during the Transition Period to demonstrate full satisfaction of the Participant's FS Capacity Requirement, which, under certain conditions and limitations prescribed by Part II of this Tariff, permits *the Participant to pay a Discounted Deficiency Charge*.

Federal Power Marketing Administration: A United States federal agency that operates electric systems and sells the output of federally owned and operated hydroelectric dams located in the United States.

FERC: The Federal Energy Regulatory Commission.

Forced Outage Factor: The factor resulting from dividing the number of hours a generating unit or set of generating units is not synchronized to the grid system, not in reserve shutdown state and considered to be out of service for unplanned outages—or a startup failure, by the number of total hours in the period multiplied by 100% or a Program Administrator calculated equivalent forced outage factor that reflects the likelihood and extent to which a resource will be unavailable from time to time due to factors outside management control.

Forward Showing Program: The program and requirements as set forth in Part II of this Tariff.

Forward Showing Submittal (“FS Submittal”): The submissions a Participant is required to submit in advance of each Binding Season to demonstrate its satisfaction of the FS Capacity Requirement and FS Transmission Requirement, as set forth in Part II of this Tariff.

Forward Showing Year: A period consisting of a Summer Season and the immediately succeeding Winter Season.

FS Capacity Requirement: The minimum quantity of capacity a Participant is required to demonstrate for a Binding Season, as set forth in Part II of this Tariff.

FS Deadline: The deadline for Participants’ submissions of their FS Submittals for a Binding Season, as established under Part II of this Tariff.

FS Planning Reserve Margin (“FSPRM”): An increment of resource adequacy supply needed to meet conditions of high demand in excess of the applicable peak load forecast and other conditions such as higher resource outages, or lower availability of resources, expressed as a percentage of the applicable peak load forecast, as determined in accordance with Part II of this Tariff.

FS Transmission Requirement: The minimum quantity of transmission service rights a Participant is required to demonstrate for a Binding Season, as set forth in Part II of this Tariff.

High-Priced Day: The most recent day in the CAISO in which prices in the day-ahead market were at least \$200/MWh.

Holdback Capacity: Capacity that is voluntarily supplied or is the result of a positive Sharing Calculation result that is bindingly committed to the WRAP after it is claimed by one or more Participants with a negative Sharing Calculation result.

Holdback Requirement: A MW quantity, as determined on a Preschedule Day, that a Participant is required to be capable of converting into an Energy Deployment on a given hour of the succeeding Operating Day, as more fully set forth in Part III of this Tariff.

ICE Index: A wholesale electric price index prepared and published by the Intercontinental Exchange.

Incremental Cash Working Capital Support Charge: Incremental Cash Working Capital Support Charge shall have the meaning provided in Schedule 1 of this Tariff.

Independent Evaluator: An independent entity engaged to provide an independent assessment of the performance of the WRAP and any potential beneficial design modifications, as set forth in Part I of this Tariff.

Installed Capacity: Nameplate capacity adjusted for conditions at the site of installation.

International Power Marketing Entity: An entity that (i) owns, controls, purchases and/or sells resource adequacy supply and is responsible under the WRAP program for meeting LRE obligations associated with one or more loads physically located outside the United States.

Legacy Agreement: A power supply agreement entered into prior to October 1, 2021.

Load Charge: A component of the WRAP Administration Charge as established under Schedule 1 of this Tariff.

Load Charge Rate: Load Charge Rate shall have the meaning provided in Schedule 1 of this Tariff.

Load Services Costs: Load Services Costs shall have the meaning provided in Schedule 1 of this Tariff.

Load Services Cost Centers: Load Services Cost Centers shall have the meaning provided in Schedule 1 of this Tariff.

Load Services Percentage: Load Services Percentage shall have the meaning provided in Schedule 1 of this Tariff.

Load Responsible Entity (“LRE”): An LRE is an entity that (i) owns, controls, purchases and/or sells resource adequacy supply, or is a Federal Power Marketing Administration or an International Power Marketing Entity, and (ii) has full authority and capability, either through statute, rule, contract, or otherwise, to:

- (a) submit capacity and system load data to the WRAP Program Operator at all hours;
- (b) submit Interchange Schedules within the WRAP Region that are prepared in accordance with all NERC and WECC requirements, including providing E-Tags for all applicable energy delivery transactions pursuant to WECC practices and as required by the rules of the WRAP Operations Program;
- (c) procure and reserve transmission service rights in support of the requirements of the WRAP Forward Showing Program and Operations Program; and
- (d) track and bilaterally settle holdback and delivery transactions.

Subject to the above-mentioned criteria, an LRE may be a load serving entity, may act as an agent of a load serving entity or multiple load serving entities, or may otherwise be responsible for meeting LRE obligations under the WRAP.

Locational Marginal Price: The cost of delivering an additional unit of energy to a given node, as calculated under a FERC-regulated wholesale electric tariff.

Loss of Load Expectation (“LOLE”): An expression of the frequency with which a single event of failure, due to resource inadequacy, to serve firm load would be expected (based on accepted reliability planning analysis methods) to result from a given FS Planning Reserve Margin.

Make Whole Adjustment: A component used as part of the calculation of settlements for Holdback Requirements and Energy Deployments under Part III of this Tariff.

Maximum Base Charge: The maximum amount prescribed in Schedule 1 of the Tariff that the Base Charge cannot exceed.

Maximum Load Charge Rate: The maximum rate prescribed in Schedule 1 of the Tariff that the Load Charge Rate cannot exceed.

Median Monthly P50 Peak Loads: Median Monthly P50 Peak Loads has the meaning prescribed by Schedule 1 of this Tariff.

Month: A calendar month.

Monthly Capacity Deficiency: A Participant's Capacity Deficiency for a given Month.

Monthly Deficiency: An identification under Part II of this Tariff whether, and the extent to which, a Participant's need for capacity or transmission for a given Month is greater than the capacity or transmission, respectively, the Participant can demonstrate for such Month.

Monthly FS Capacity Requirement: FS Capacity Requirement determined as to a Month.

Monthly FSPRM: The FS Planning Reserve Margin applicable to a given Month of a given Binding Season, as determined in accordance with Part II of this Tariff.

Monthly Transmission Deficiency: A Participant's Transmission Deficiency for a given Month.

Monthly Transmission Demonstrated: A Participant's Demonstrated FS Transmission for a given Month.

Monthly Transmission Exceptions: Exceptions from the FS Transmission Requirement approved under Part II of this Tariff for a Participant for a given Month.

Multi-Day-Ahead Assessment: A period of days preceding each Operating Day, and ending on the Preschedule Day, during which Sharing Calculations are successively performed based in each case on Operating Day conditions expected at the time of calculation.

North American Electric Reliability Corporation ("NERC"): A not-for-profit international regulatory authority that serves as the designated electric reliability organization for the continental United States, Canada, and a portion of Mexico.

Net Contract QCC: The QCC, which may be a positive or negative value, calculated, in sum and on net, for a Participant's power purchase agreements and power sale agreements, in accordance with Part II of this Tariff.

Non-Binding Season: As to a Participant, *any* Binding Season during which the *provisions of Section 15A.1* of this Tariff *apply*.

Non-Binding Participant: For any Binding Season, a Participant that has made an election by which such Binding Season is a Non-Binding Season for that Participant.

Open Access Transmission Tariff: A governing document on file with FERC establishing the rates, terms, and conditions of open access transmission service, or equivalent tariff of a transmission service provider that is not required to file its transmission service tariff with FERC.

Operating Day: A current Day of actual electric service from resources to load, for which Sharing Events are determined and Energy Deployments may be required, as set forth in Part III of this Tariff.

Operations Program: The program and requirements set forth in Part III of this Tariff.

P50 Peak Load Forecast: A peak load forecast prepared on a basis, such that the actual peak load is statistically expected to be as likely to be above the forecast as it is to be below the forecast.

Participant: A Load Responsible Entity that is a signatory to the WRAPA.

Portfolio QCC: As to a Participant, the sum of the Resource QCC provided by all of a Participant's Qualifying Resources plus the Net Contract QCC of such Participant, as adjusted to reflect RA Transfers as described in Section 16.2.7 and Planned Outages as described in Section 16.2.8.

Preschedule Day: The applicable scheduling Day for a given Operating Day as defined in scheduling calendar established by WECC.

Program Administrator: The Western Power Pool, in its role as the entity responsible for administering the WRAP.

Program Operator: A third party that has contracted with the Program Administrator to provide technical, analytical, and implementation support to the Program Administrator for the WRAP.

Program Review Committee ("PRC"): The stakeholder sector committee as established in Section 4.2 of this Tariff.

Pure Capacity: A MW quantity of capacity without any assigned forced outage rate employed in ELCC determinations under Part II of this Tariff.

Qualifying Capacity Contribution ("QCC"): The MW quantity of capacity provided by a resource, contract, or portfolio which qualifies to help satisfy a Participant's FS Capacity Requirement, as determined in accordance with Part II of this Tariff.

Qualifying Resource: A generation or load resource that meets the qualification and accreditation requirements established by and under Part II of this Tariff.

Real-Time Price: A price for wholesale electric transactions designated as a real-time price in an Applicable Price Index.

Resource Adequacy Participant Committee ("RAPC"): The committee comprised of representatives from each Participant as established in Part I of this Tariff.

Resource QCC: The QCC provided by a Qualifying Resource, as determined in accordance with Part II of this Tariff.

Run-of-River Qualifying Resource (“ROR”): A hydro-electric power project that does not have the capability to store a sufficient volume of water to support continuous generation at the project’s stated maximum capacity for a period of one hour. Resource does not meet the definition of a Storage Hydro Qualifying Resource.

Safety Margin: An additional factor allocated among Participants with positive sharing calculations when warranted by certain conditions as prescribed by Part III of this Tariff.

Senior Official Attestation: A signed statement of a senior official of a Participant attesting that it has reviewed such Participant’s information submission required under this Tariff, that the statements therein are true, correct and complete to the best of such official’s knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed therein, and containing such further statements as required by this Tariff or the applicable Business Practice Manual for the information submission at issue.

Sharing Calculation: A calculation used in the Operations Program under Part III of this Tariff to identify any hour in which any Participant is forecast to have a capacity deficit.

Sharing Event: An hour or hours of an Operating Day for which one or more Participants has a negative Sharing Calculation result, as determined in accordance with Part III of this Tariff.

Storage Hydro Qualifying Resource: A hydro-electric power project with an impoundment or reservoir located immediately upstream of the powerhouse intake structures that can store a sufficient volume of water to support continuous generation at the project’s stated maximum capacity for a period of one hour or longer.

Subregion: An area definition approved by the Board of Directors and identified in the Business Practice Manuals, that is wholly contained within the WRAP Region, which is separated from one or more other Subregions by transmission constraints on capacity imports or on capacity exports that result, or are expected to result, in differing FSPRM determinations for that Subregion relative to such other Subregion.

Summer Season: A period of time that commences on June 1 of a Year and terminates on September 15 of the same Year.

System Sale: A bilateral agreement that conveys generating capacity from a group of generating resources from one party to another.

Transition Period: The Binding Seasons within the time period from June 1, 2025, through March 15, 2029, plus the time period required to implement the requirements and procedures of Part II of this Tariff applicable to such Binding Seasons.

Transmission Deficiency: A shortfall in a Participant’s demonstration of secured transmission service rights, after accounting for any approved transmission exceptions, relative to that Participant’s FS Transmission Requirement, as further defined in Part II of this Tariff.

Unforced Capacity: The percentage of Installed Capacity available after a unit's forced outage rate is taken into account.

Variable Energy Resource ("VER"): An electric generation resource 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.

VER Zone: A geographic area delineated in accordance with Section 16.2.5.2 of this Tariff for a given type of VER, where each VER of that type located in such area is anticipated to be comparably affected by meteorological or other expected conditions in such area to a degree that warrants distinct calculation of ELCC allocations for such VERs of that type in such area.

Voluntary Holdback: Capacity that is offered to the Operations Program by a Participant with excess supply that is not obligated to the WRAP through a positive Sharing Calculation result, some or all of which can be used as part of the offering Participant's Holdback Requirement. For a Participant in a Subregion without a Central Hub, Voluntary Holdback for an hour must additionally include a total quantity for all identified points from Section 19.4 at which it can deliver that is no less than the amount of the Voluntary Holdback capacity for such hour.

Western Electricity Coordinating Council ("WECC"): A non-profit corporation that has been approved by FERC as the regional entity for the western interconnection and that also has NERC delegated authority to create, monitor, and enforce reliability standards.

Western Resource Adequacy Program Agreement ("WRAPA"): The participation agreement for the Western Resource Adequacy Program, as set forth as Attachment A to this Tariff, or as set forth for an individual Participant in a non-conforming version of such participation agreement accepted by FERC.

Western Resource Adequacy Program ("WRAP"): The Western Resource Adequacy Program, as established under this Tariff.

Western Power Pool ("WPP"): Northwest Power Pool, d/b/a Western Power Pool, which serves as Program Administrator for the WRAP under this Tariff and holds exclusive rights under section 205 of the Federal Power Act to file amendments to this Tariff.

Winter Season: A period of time that commences on November 1 of a Year and terminates on March 15 of the immediately following Year.

WRAP Cost Assignment Matrix: The matrix set forth in Schedule 1 of this Tariff to identify which WRAP costs are assessed to the Base Charge and the Load Charge components of the WRAP Administration Charge.

WRAP Region: The area comprising, collectively, (i) the duly recognized and established load service areas of all loads in the United States that all Participants are responsible for serving, (ii) the duly recognized and established load service areas of all loads in the United States that all load serving entities, on whose behalf a Participant acts in accordance with this Tariff, are responsible for serving, and (iii) the applicable location(s) on the United States side of the United States

international border that form the basis for an International Power Marketing Entity's participation under the WRAP, in all cases excluding, for any Binding Season, any loads permitted by this Tariff to be excluded from Participants' Forward Showing Submittal for such Binding Season.

Year: A calendar year.

2. Role of Western Power Pool

- 2.1 WPP, acting under the direction of its Board of Directors, shall administer the WRAP as Program Administrator. Except as specified in Section 3 of this Tariff, WPP, as authorized by its Board of Directors, shall have the sole authority to submit to FERC amendments to the rates, terms, and conditions set forth in this Tariff under section 205 of the Federal Power Act, 16 U.S.C. § 824d. Nothing contained herein shall be construed as affecting in any way the right of any Participant or any other entity to apply to FERC for amendments to the rates, terms, and conditions contained herein under section 206 of the Federal Power Act, 16 U.S.C. § 824e, or any other applicable provision of that Act.
 - 2.1.1 WPP president and staff shall support the Board of Directors in overseeing all aspects of the WRAP, including oversight and management of the Program Operator(s) in accordance with any Program Operator agreement(s) entered into by WPP under Section 2.2 of this Tariff.
 - 2.1.2 WPP and its staff shall provide all legal, regulatory, and accounting support for the WRAP, including support for making filings with FERC as authorized by the Board of Directors.
 - 2.1.3 WPP staff shall provide all logistical support necessary to facilitate implementation of the WRAP and specifically all logistical needs of the Board of Directors and reasonable logistical assistance to facilitate meetings and activities of the RAPC, PRC, and all subordinate organizational groups.
- 2.2 As Program Administrator, WPP shall undertake all actions as necessary to implement and administer the WRAP, including but not limited to engaging one or more Program Operator(s) to perform technical operations of the WRAP including both the Forward Showing Program and Operations Program. Except as otherwise provided herein, WPP may contract for certain activities required by this Tariff to be provided by one or more Program Operator(s) subject to oversight by the Board of Directors, provided, however, that the Program Operator shall operate solely as a contractor under the oversight of WPP, and WPP shall remain the sole point of compliance with this Tariff. WPP shall have the sole authority to enter into contracts for such engagements and is responsible for providing support and compensation for such Program Operator(s) pursuant to any contract(s).
 - 2.2.1 WPP will contract with Program Operator(s) to assist WPP with providing reasonable technical support and expertise to all WRAP organizational groups as governed by the Program Operator's contract with WPP.

3. Role of the Board of Directors and Limitations on Board Authority

- 3.1 Authority: Ultimate authority over all aspects of the WRAP as established under this Tariff shall be vested in the independent Board of Directors. Each member of the Board of Directors shall at all times exhibit financial independence from all Participants and classes of Participants, as further provided in the WPP Bylaws and policies. As set forth in Section 2.1 of this Tariff, the Board of Directors shall have the exclusive authority to approve and direct WPP to file amendments to this Tariff with FERC under section 205 of the Federal Power Act, 16 U.S.C. § 824d, subject to the limitations and prohibitions imposed under Section 3.4 of this Tariff. The Board of Directors shall also have the exclusive authority to approve the Business Practice Manuals and any amendments to the Business Practice Manuals, subject to the terms, conditions, and limitations imposed under this Tariff.
- 3.2 The Board of Directors generally shall meet in open session for all matters related to the WRAP; however, the Board of Directors may meet in closed session as the chair deems necessary to safeguard the confidentiality of sensitive information, including but not limited to discussing matters related to personnel, litigation, or proprietary, confidential, or security sensitive information. The Board of Directors shall not take action on any proposed amendment to this Tariff or the Business Practice Manuals in closed session. During open session, the chair of the Board of Directors will reasonably accommodate stakeholder requests to address the Board within the discretion of the chair.
- 3.3 The Board of Directors shall only consider amendments to this Tariff or the Business Practice Manuals after such amendments are first acted upon by the RAPC, subject to the following additional conditions:
- 3.3.1 In the event that the RAPC has voted to reject or has not voted to support a proposed amendment to this Tariff or the Business Practice Manuals, any stakeholder may appeal such decision to the Board of Directors, and the Board of Directors shall consider the appeal.
- 3.3.2 In the event that the RAPC has voted to reject or has not voted to support a proposed amendment to this Tariff or the Business Practice Manuals and a stakeholder has not appealed such decision, the Board of Directors may, on its own motion or motion of any member of the Board of Directors, consider the proposed amendment.
- 3.3.3 In the event that the COSR as a body opposes or appeals a RAPC decision to the Board of Directors regarding an amendment to this Tariff or the Business Practice Manuals, the process set forth in Section 4.3.3 of this Tariff shall apply prior to the Board of Directors' consideration of the RAPC decision.
- 3.3.4 In the event that the Board of Directors wishes to initiate an amendment to this Tariff or the Business Practice Manuals that has not undergone PRC

and RAPC review, the Board of Directors shall first submit such proposed amendment to the PRC for review under the processes set forth in Sections 4.1 and 4.2 of this Tariff.

3.3.5 Expedited Review Process: In the event that the RAPC determines that an expedited review process is necessitated by an exigent circumstance as set forth in Section 4.1.3.1.1 of this Tariff, the Board of Directors shall review the RAPC's recommended Tariff or Business Practice Manual amendment expeditiously and invite comment from the PRC, COSR, and stakeholders concurrently with its consideration of the RAPC proposal.

3.4 WPP is specifically prohibited from amending this Tariff to:

3.4.1 Alter, usurp, control, or otherwise materially modify the Participants' existing functional control and responsibility over their generation and transmission assets, including but not limited to planning and operation of such assets, Open Access Transmission Tariff administration, interfering with Balancing Authority duties and responsibilities, or imposing a must-offer requirement on any specific generation resources.

3.4.2 Administer Open Access Transmission Tariff service, engage in Balancing Authority operations, impose transmission planning requirements, or assume any transmission planning responsibilities with regard to any of the Participant's transmission assets.

3.4.3 Form any type of organized market, including but not limited to a capacity market, a regional transmission organization, a real-time market, or any other type of FERC-approved regional construct, unless such action is also approved by the RAPC under its voting procedures set forth in Section 4.1.6 of this Tariff.

3.4.4 Impose any requirements on Participants beyond the assessment of financial charges as specified in this Tariff or suspension or termination of participation for failure to meet any WRAP requirements.

3.4.5 Amend in any way this Section 3 of this Tariff without the approval of the RAPC under its voting procedures set forth in Section 4.1.6 of this Tariff.

3.4.6 Amend the RAPC voting thresholds set forth in Section 4.1.6 of this Tariff.

3.5 Subject to the limitations and prohibitions imposed under Section 3.4 of this Tariff, if the Board of Directors votes to file at FERC to expand the WRAP to include market optimization or transmission planning services, WPP will initiate a formal process with COSR and other stakeholders to conduct a full review of governance structures and procedures, including the role of states. If COSR does not support any revised governance structure that emerges from such WPP review process, the WPP will file, along with any WPP governance proposal to FERC, an alternative

governance structure on behalf of the COSR so long as such COSR alternative governance structure is supported by 75% of the COSR.

4. Organizational Groups for the WRAP

4.1 Resource Adequacy Participants Committee

4.1.1 Authority and Purpose: The RAPC shall be the highest level of authority for representation by Participants in the WRAP governance structure and shall represent the interests of Participants directly to the Board of Directors.

4.1.2 Composition: The RAPC shall be composed of one representative from each Participant. Such representative shall be a senior management official with binding decision-making authority on behalf of the Participant, or a designated representative of a Participant's senior management official. A designated representative shall be required to have binding decision-making authority on behalf of the Participant and shall have all voting rights delegated from the senior management official. Participant shall appoint a designated representative no less than one Business Day in advance of a meeting for that designated representative to be eligible to vote during the meeting.

4.1.3 Functions: The RAPC:

4.1.3.1 Shall consider and recommend that the Board of Directors approve or reject all proposed amendments to this Tariff or Business Practice Manuals prior to the Board of Directors considering such amendments, including any amendments reviewed and referred by the PRC.

4.1.3.1.1 Exigent Circumstances: When the RAPC determines that an amendment to the Tariff or the Business Practice Manuals requires expedited Board of Directors review due to exigent circumstances, it may propose such amendment directly to the Board of Directors without awaiting review by other committees and stakeholders. Exigent circumstances include: (i) a FERC-mandated amendment to this Tariff or the Business Practice Manuals; (ii) an amendment to this Tariff or the Business Practice Manuals to address an immediate reliability impact; or (iii) an amendment to this Tariff or the Business Practice Manuals that the RAPC has determined has significant impacts to utility service.

4.1.3.2 Shall consider and vote to recommend that the Board of Directors approve or reject any proposed amendments to this Tariff or the Business Practice Manuals.

4.1.3.3 May provide input to the Board of Directors on any proposed WPP rules that apply both to the WRAP and other WPP services.

- 4.1.3.4 May evaluate and provide input to the Board of Directors on the WRAP administration budget and budget allocation to Participants, including amendments to the WRAP Administration Charge as calculated in accordance with Schedule 1 of this Tariff.
- 4.1.3.5 Shall form and organize all of the organizational groups under its responsibilities.
- 4.1.3.6 May take other actions reasonably related to its role as the senior-level Participant advisory committee to the Board of Directors regarding WRAP matters.
- 4.1.4 Leadership: The RAPC shall select from among its members a chair and vice chair.
- 4.1.5 Meetings:
 - 4.1.5.1 Meetings of the RAPC will generally be open to all stakeholders. WPP shall provide advanced written notice of the date, time, place, and purpose of each RAPC meeting. All RAPC decisional items shall be placed on the open meeting agenda and allotted adequate time for public comment and deliberation.
 - 4.1.5.1.1 The RAPC may meet in closed session as the RAPC chair deems necessary; provided, however, that the RAPC shall allow the designated COSR support staff member as specified in Section 4.3 of this Tariff to attend any closed meeting. The RAPC shall not take action on any proposed amendment to this Tariff or the Business Practice Manuals in closed session.
 - 4.1.5.2 The quorum for a meeting of the RAPC or any organizational group organized under it shall be one-half of the representatives thereof, but not less than three representatives, provided that a lesser number may serve as a quorum for the sole purpose of voting to adjourn the meeting to a later time.
- 4.1.6 Voting:
 - 4.1.6.1 Each RAPC representative shall have one vote.
 - 4.1.6.2 Voting in the RAPC shall utilize a “House and Senate” model.
 - 4.1.6.2.1 Each Participant’s “House” vote shall represent the proportion of the Participant’s Median Monthly P50 Peak Load, as described in Section 2 of Schedule 1 of this Tariff, compared to the sum of all Participants’ Median Monthly P50 Peak Loads. A Participant may choose to divide its

House vote but is responsible for announcing such at the time of voting.

4.1.6.2.2 Each Participant shall receive a single, non-weighted “Senate” vote.

4.1.6.2.3 For an action to be approved by the RAPC, it must pass both “House” and “Senate” votes as follows. For purposes of voting, the percentages identified below specify the percentage threshold of the entire RAPC (whether in attendance or not) that is needed for passage of an action.

4.1.6.2.3.1 Actions to amend any of the limitations on Board authority set forth in Section 3.4 of this Tariff require an 80% affirmative approval by both the House and the Senate vote tallies to be approved.

4.1.6.2.3.2 Actions brought before the RAPC that have been approved by the PRC require a 67% affirmative approval by both the House and Senate vote tallies to be approved.

4.1.6.2.3.3 All other actions not specified in this Section 4.1.6.2.3 require a 75% affirmative approval by both the House and Senate vote tallies to be approved.

4.1.6.2.4 If at any time a single Participant’s P50 load for voting purposes would result in that Participant possessing a veto over any votes taken under Section 4.1.5.2.3, such Participant’s House vote shall be capped at 1% below the amount that would convey such a veto, such that no single Participant will possess a veto over any action taken under Section 4.1.6.2.3.

4.2 Program Review Committee

4.2.1 Authority and Purpose: The PRC is a sector-representative group comprised in accordance with Section 4.2.2 of this Tariff. The PRC is responsible for receiving, considering, and proposing amendments to this Tariff and the Business Practice Manuals. The PRC shall serve as a clearinghouse of all recommended amendments to this Tariff or the Business Practice Manuals, except for those designated by the RAPC as involving an exigent circumstance under Section 4.1.3.1.1 of this Tariff, amendments to Schedule 1 of this Tariff and cost allocation for the WRAP, and amendments to the WRAPA set forth as Attachment A of this Tariff. The PRC shall serve in an advisory capacity to the RAPC and, when applicable, the Board of Directors.

- 4.2.1.1 The PRC shall present all proposals received to the RAPC, along with the PRC's recommendation and summaries of all comments and feedback received.
 - 4.2.1.2 The PRC's decisions are advisory-only and are not binding on the RAPC, the Board of Directors, or WPP.
- 4.2.2 Composition: The PRC shall be composed of up to twenty representatives from the following ten sectors: four representatives of RAPC Participant investor-owned utilities; four representatives of RAPC Participant publicly-owned (consumer or municipal) utilities; two representatives of RAPC Participant retail competition load serving entities; two representatives from RAPC Participant Federal Power Marketing Administrations; two representatives of independent power producers; two representatives of public interest organizations; one representative of retail consumer advocacy groups; one representative of industrial customer advocacy groups; one representative of load serving entities with loads in the WRAP that are represented by other LREs and are not otherwise eligible for any other sector; a representative from the COSR. Expectations for sectors to consider regional, operational, geographic, demographic, and other forms of diversity in selecting their sector representatives are set forth in more detail in the PRC charter, which shall be posted and maintained on the WRAP website or other appropriate public location.
- 4.2.3 The PRC shall establish a process and criteria for receiving and reviewing proposed amendments to this Tariff and the Business Practice Manuals. Such review will include procedures for stakeholder comment.
- 4.2.4 Meetings: The PRC shall meet primarily in open session; provided that the PRC may schedule closed meetings if it determines that doing so would be beneficial to safeguard the confidentiality of sensitive information. The PRC shall not take action on any proposed amendment to this Tariff or the Business Practice Manuals in closed session.
- 4.2.5 Voting: The PRC shall endeavor to operate by consensus. When voting is necessary, voting shall consist of one sector one vote, with an affirmative vote of six sectors (as specified in Section 4.2.2 of this Tariff) constituting approval of an action before the PRC.
 - 4.2.5.1 For sectors with four seats, three sector representatives must agree with the action for the sector to be considered an affirmative vote for the action.
 - 4.2.5.2 For sectors with two seats, both sector representatives must agree with the action for the sector to be considered an affirmative vote for the action.

- 4.2.6 Participants and other entities shall participate in no more than one PRC sector. If a Participant or other entity is eligible to participate in more than one sector, such Participant or other entity shall declare in which sector it will participate.

4.3 Committee of State Representatives

- 4.3.1. Composition: The COSR is a committee composed of one representative from each state or provincial jurisdiction (either public utility commission or state/provincial energy office) that regulates at least one Participant.

- 4.3.2 Leadership: The COSR shall determine its leadership, including a chair and vice chair. The chair or vice chair will be requested to attend all open sessions of the RAPC to provide input and advice.

- 4.3.2.1 The COSR shall designate a COSR support staff member to attend and audit closed meetings of the RAPC under a non-disclosure agreement.

4.3.3 Authority:

- 4.3.3.1 If the COSR determines that a proposal approved by the RAPC is substantially different from the proposal submitted to the RAPC by the PRC, the COSR may engage in additional public review and comment before the RAPC decision is presented to the Board of Directors; provided that this additional public review and comment does not unreasonably delay presentation to the Board of Directors.

- 4.3.3.2 If the COSR as a body opposes or appeals a RAPC decision to the Board of Directors, the Board of Directors will not consider the RAPC's decision until the RAPC engages with the COSR to discuss, in at least two public discussions, to attempt to reach a mutually agreeable solution.

- 4.3.3.2.1 If the appeal relates to an amendment that the RAPC designated as involving an exigent circumstance under Section 4.1.3.1.1 of this Tariff, COSR can require no more than one public discussion, provided that such additional discussion does not unreasonably hinder the timeline for Board of Directors consideration of the proposed amendment.

- 4.3.4 Voting, Meetings, and Quorum: The COSR may develop its own rules governing voting, meetings, and quorum for action. COSR shall be responsible for its own costs.

5. Independent Evaluator

- 5.1 WPP shall engage an Independent Evaluator to provide an independent assessment of the performance of the WRAP and any potential beneficial design modifications. The Independent Evaluator shall report directly to the Board of Directors.
- 5.2 The Independent Evaluator shall conduct an annual review of the WRAP, including but not limited to analyzing prior year program performance, accounting and settlement, and program design.
- 5.3 The Independent Evaluator shall prepare an annual report of its findings, and any recommended modifications to WRAP design, and present its findings to the WRAP committees and the Board of Directors, subject to any necessary confidentiality considerations. Any data included in the Independent Evaluator's report shall be reported on an aggregated basis as applicable to preserve confidentiality. The Independent Evaluator's annual reports shall be available to the public, except to the extent they contain information designated as confidential under this Tariff, or information designated as confidential by the Independent Evaluator.
- 5.4 The Independent Evaluator shall not:
 - 5.4.1 Evaluate individual Participants.
 - 5.4.2 Possess any decision-making authority regarding the WRAP or design modifications.
 - 5.4.3 Evaluate WPP's day-to-day operations of the WRAP (except as part of review of prior year program performance).

6. WPP Invoicing and Settlement

- 6.1 WPP shall be responsible for issuing invoices to, and collecting from, Participants all charges under Schedule 1 of this Tariff for recovery of all WPP costs associated with administering the WRAP.
- 6.2 WPP shall be responsible for invoicing, collecting, and (as applicable) distributing revenues from Deficiency Charges under Part II of this Tariff and Delivery Failure Charges under Part III of this Tariff.
- 6.3 Participants are not required to provide credit assurances to WPP to cover charges under Schedule 1 of this Tariff, Deficiency Charges under Part II of this Tariff, or Delivery Failure Charge under Part III of this Tariff.
- 6.4 Participants shall make full payment of all invoices rendered by WPP for which payment is required to WPP within thirty calendar days following the receipt of the WPP invoice, notwithstanding any disputed amount, but any such payment shall not be deemed a waiver of any right with respect to such dispute. Any Participant that fails to make full and timely payment to WPP of amounts owed upon expiration of the cure period specified in Section 6.4.1 of this Tariff will be in default.
 - 6.4.1 If a Participant fails to make timely payment as required by Section 6.4, WPP shall so notify such Participant. The notified Participant may remedy such asserted breach by paying all amounts due, along with interest on such amounts calculated in accordance with the methodology specified for interest on refunds in FERC's regulations at 18 C.F.R. § 35.19a(a)(2)(iii); provided, however, that any such payment may be subject to a reservation of rights, if any, to refer such matter to dispute resolution procedures under Section 9 of this Tariff. If the Participant has not remedied such asserted breach by 5:00 p.m. Pacific Prevailing Time on the second Business Day following WPP's issuance of a written notice of breach, then the Participant shall be in default.
 - 6.4.2 In the event of a Participant's default under Section 6.4.1 of this Tariff, WPP in its discretion may pursue collection through such actions, legal or otherwise, as it reasonably deems appropriate, including but not limited to the prosecution of legal actions and assertion of claims in the state and federal courts as well as under the United States Bankruptcy Code. After deducting any costs associated with pursuing such claims, any amounts recovered by WPP with respect to defaults for which there was a Default Allocation Assessment shall be distributed to the Participants who have paid their Default Allocation Assessment in proportion to the Default Allocation Assessment paid by each Participant, as calculated pursuant to Section 6.4.3 of this Tariff. In addition to any amounts in default, the defaulting Participant shall be liable to WPP for all reasonable costs incurred in enforcing the defaulting Participant's obligations.

6.4.3 In the event of a Participant's default with respect to an invoice issued by WPP for charges under Schedule 1 of this Tariff, in order to ensure that WPP remains revenue neutral, the Board of Directors may assess against, and collect from, the Participants not in default a Default Allocation Assessment to recover the costs associated with the default. Such assessment shall in no way relieve the defaulting Participant of its obligations.

6.4.3.1 The Default Allocation Assessment shall be equal to:

$$(20\% \times (1/N) + (80\% \times (\text{Participant Median Monthly P50 Peak Load} / \text{Sum Participants Median Monthly P50 Peak Load})))$$

where:

N = the total number of Participants, calculated as of the date WPP declares a Participant in default.

Participant Median Monthly P50 Peak Load = for each Participant included in factor "N" above, the Participant's Median Monthly P50 Peak Load as determined in Section 2 of Schedule 1 of this Tariff, recalculated on the day the WPP declares a Participant in default.

All Participants Median Monthly P50 Peak Load = the sum of the Participant Median Monthly P50 Peak Load values for all Participants included in factor "N" above.

7. Credit Requirements and Settlement for Holdback and Delivered Energy

7.1 Credit and Settlement for Holdback and Delivered Energy: Settlement of holdback and delivered energy shall be completed bilaterally between Participants, subject to the following:

7.1.1 Neither WPP nor the Program Operator(s) shall take title to energy or be party to any settlement of holdback or delivered energy.

7.1.2 Participants shall establish credit with each other through one of the following mechanisms. Neither WPP nor the Program Operator(s) shall be involved in the calculation of credit or credit limits.

7.1.2.1 Establish credit directly with each Participant: Participants may establish credit directly with other Participants from whom they may receive delivered energy.

7.1.2.1.1 Such credit should be established in advance of the applicable season.

7.1.2.1.2 The amount of such credit and any credit limit shall be at the discretion of each Participant.

7.1.2.2 WPP shall conduct a competitive solicitation process to identify a third-party service provider to serve as central credit organization and clearing house for credit and settlement. Once such central credit organization is selected, Participants that have not already directly established credit with all other Participants under Section 7.2.2.1 of this Tariff shall establish credit with the central credit organization.

7.1.2.2.1 WPP will provide the central credit organization any Operations Program related information necessary for them to perform their obligations as set forth in the agreement between WPP and the central credit organization.

7.1.2.2.2 All costs associated with the central credit organization service shall be borne by Participants as established in the agreement between WPP and the central credit organization and either billed directly on a transactional basis or else recovered under Schedule 1 of this Tariff.

7.1.2.3 The obligation to arrange sufficient credit shall at all times be on the deficient Participant (i.e., a Participant with a negative sharing calculation in the Operations Program). If a deficient Participant has not made good faith and commercially reasonable efforts to

obtain sufficient credit with a delivering Participant, such delivering Participant shall so notify WPP and shall be excused from any obligation to deliver to such deficient Participant. Nothing in this Section 7 requires a Participant to violate its written risk or credit policy.

- 7.2 All settlement pricing calculated under this Tariff shall be final and no adjustments to settlement prices shall be allowed after the later of: (1) ninety Days after such settlement prices are posted by WPP; or (2) the final outcome of any dispute resolution process that is initiated by a Participant to dispute a settlement price pursuant to the Dispute Resolution Procedures set forth in Section 9 of this Tariff.
- 7.2.1 A Participant may invoke the Dispute Resolution Procedures set forth in Section 9 of this Tariff to address calculation errors in any settlement price, but may not invoke the Dispute Resolution Procedures to dispute data sources or to request the use of alternative data sources.

8. Force Majeure, Limitation of Liability, and Indemnification

- 8.1 Force Majeure: An event of Force Majeure means any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, pandemic, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation, or restriction imposed by governmental military or lawfully established civilian authorities, or any other cause beyond a party's control. A Force Majeure event does not include an act of negligence or intentional wrongdoing. Neither WPP nor the Participant will be considered in default as to any obligation under this Tariff if prevented from fulfilling the obligation due to an event of Force Majeure. However, a Party whose performance under this Tariff is hindered by an event of Force Majeure shall make all reasonable efforts to perform its obligations under this Tariff. Notwithstanding the foregoing, the physical inability to perform because of an event of Force Majeure shall not relieve the party of any financial obligations incurred under this Tariff or as a result of the Force Majeure event, unless, and to the extent, such financial obligation is waived or excused under provisions of Part II or Part III of this Tariff expressly providing for such waiver or excuse.
- 8.2 Limitation of Liability:
- 8.2.1 Neither WPP nor the Program Operator shall be liable, whether based on contract, indemnification, warranty, tort, strict liability or otherwise, to any Participant, other entity owning a Qualifying Resource, third party, or other person for any damages whatsoever, including, without limitation, direct, incidental, consequential, punitive, special, exemplary, or indirect damages arising or resulting from any act or omission in any way associated with service provided under this Tariff or any agreement hereunder, including, but not limited to, any act or omission that results in an interruption, deficiency or imperfection of service, except to the extent that the damages are direct damages that arise or result from the gross negligence or intentional misconduct of WPP or Program Operator, in which case WPP shall only be liable for direct damages.
- 8.2.2 Neither WPP nor the Program Operator shall be liable for damages arising out of services provided under this Tariff or any agreement entered into hereunder, including, but not limited to, any act or omission that results in an interruption, deficiency, or imperfection of service, occurring as a result of conditions or circumstances beyond the control of WPP, or resulting from electric system design common to the domestic electric utility industry or electric system operation practices or conditions common to the domestic electric utility industry.
- 8.2.3 To the extent that a Participant or other person has a claim against WPP, the amount of any judgment or arbitration award on such claim entered in favor of such entity shall be limited to the value of WPP's assets. No party may seek to enforce any claims under this Tariff or any Agreements entered into

hereunder against the directors, managers, members, shareholders, officers, employees, or agents of WPP, or against the Program Operator, who shall have no personal liability for obligations of WPP by reason of their status as directors, managers, members, shareholders, officers, employees, or agents of WPP or by virtue of their status as Program Operator.

8.2.4 To the extent that WPP is required to pay any money damages or compensation or pay amounts due to its indemnification of any other party as it relates to any services provided, acts, or omissions under this Tariff or any agreement entered into hereunder, WPP shall be allowed to recover any such amounts under Schedule 1 of this Tariff as part of the WRAP Administration Charge. Notwithstanding the foregoing, WPP shall be prohibited from recovering under this Tariff any costs associated with any damages, compensation, or indemnification costs that arise: (i) with regard to any acts or omissions that occur outside of this Tariff and any agreements entered into hereunder, or (ii) if a court of competent jurisdiction determines that the damages are direct damages that arise or result from the gross negligence or intentional misconduct of WPP or the Program Operator.

8.2.5 A Participant's liability to another Participant under this Tariff for failure to comply with obligations under this Tariff shall be limited to any charges or payments calculated pursuant to this Tariff; provided, however, that nothing in this Section 8.2.5 shall limit or is intended to foreclose any Participant's liability that may arise under any bilateral agreements between Participants.

8.3 Indemnification: The Participants shall at all times indemnify, defend, and save WPP (and any of its Program Operator(s), agents, consultants, directors, officers, or employees) harmless from any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties arising out of or resulting from the performance of activities under this Tariff by WPP, any Program Operator(s), or agents, consultants, directors, officers, or employees of WPP, except in cases of gross negligence or intentional wrongdoing by WPP or the Program Operator. WPP shall credit any proceeds from insurance or otherwise recovered from third parties to Participants who have paid to indemnify WPP under this Section 8.3.

8.4 Actions upon Unavailability of Program Operator(s): In the event that the Program Operator(s) become(s) unwilling, unable, or otherwise unavailable to perform contractual duties necessary for WPP to discharge its obligations under this Tariff and WPP's agreement(s) with the Program Operator(s), WPP shall engage with Participants as soon as practicable to determine what actions to take, including but not limited to filing with FERC a request to waive one or more provisions of this Tariff up to and including immediate suspension of all rights and obligations under this Tariff until a replacement Program Operator(s) can assume all relevant Program Operator functions.

9. Dispute Resolution Procedures

- 9.1 Internal Dispute Resolution Procedures: Subject to the limitations set forth in Section 7.2.1 of this Tariff, any dispute between a Participant and WPP under the Tariff (excluding amendments to the Tariff or to any agreement entered into under the Tariff, which shall be presented directly to the FERC for resolution) shall be referred to a designated senior representative of WPP and a senior representative of the Participant for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty days (or such other period as the parties may agree upon) by mutual agreement, such dispute shall then be referred to the chief executive officer or comparable executive of each party for resolution. In the event that the executives are unable to resolve the dispute within thirty days (or such other period as the parties may agree upon), such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.
- 9.2 External Arbitration Procedures: Any arbitration initiated under the Tariff shall be conducted before a single neutral arbitrator appointed by the parties to the dispute. If the parties fail to agree upon a single arbitrator within ten days of the referral of the dispute to arbitration, each party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall provide each of the parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association and any applicable FERC regulations.
- 9.3 Arbitration Decisions: Unless otherwise agreed by the parties, the arbitrator(s) shall render a decision within ninety days of appointment and shall notify the parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and/or any agreement entered into under the Tariff and shall have no power to modify or change any of the above in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set forth in the Federal Arbitration Act and/or the Administrative Dispute Resolution Act. The final decision of the arbitrator must also be filed with the FERC if it affects jurisdictional rates, terms and conditions of service or facilities.
- 9.4 Costs: Each party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable: (i) the cost of the arbitrator chosen by the party to sit on the three-member panel and one half of the

cost of the third arbitrator chosen; or (ii) one half the cost of the single arbitrator jointly chosen by the Parties.

- 9.5 Rights Under the Federal Power Act: Nothing in this section shall restrict the rights of any person to file a complaint with the FERC under relevant provisions of the Federal Power Act or of WPP to file amendments to this Tariff under the relevant provisions of the Federal Power Act.

10. Treatment of Confidential and Commercially Sensitive Information of Participants

10.1 Terms: For purposes of this Section 10 only, the term “WPP” shall also include, as applicable, any directors, officers, employees, agents, or consultants of WPP, the Independent Evaluator established under Section 5 of this Tariff, and any central credit organization established under Section 7 of this Tariff. WPP shall be bound by the rights, obligations, and conditions set forth in this Section 10. For purposes of this Section 10, the term “Disclosing Entity” shall include any Participant that discloses information to WPP that the Disclosing Entity deems and identifies as confidential or commercially sensitive. WPP’s collection and handling of non-Participant data shall be governed by separate non-disclosure agreements with such non-Participants.

10.2 Treatment of Confidential or Commercially Sensitive Information: WPP shall identify in the Business Practice Manuals categories of Participant-specific data and information received from Participants that shall be treated as confidential or commercially-sensitive, which WPP shall not disclose publicly or to any other Participant or other entity except as provided for in this Section 10. In addition, WPP shall maintain the confidentiality of all of the documents, data, and information provided to it by any Participant that such disclosing Participant deems and specifically identifies as confidential or commercially sensitive. Notwithstanding the foregoing, WPP need not keep confidential: (i) information that is publicly available or otherwise in the public domain; or (ii) information that is required to be disclosed under this Tariff or any applicable legal or regulatory requirement (subject to the procedures set forth in Section 10.4 of this Tariff).

10.2.1 WPP staff may develop and release publicly composite or aggregated data based upon Participant confidential or commercially sensitive information, provided that such composite or aggregated data cannot be used to identify or attribute a disclosing Participant’s confidential or commercially sensitive data. Such release of composite or aggregated data shall be governed by the following process.

10.2.1.1 Prior to the initial release of such composite or aggregated data, WPP staff shall present the form and format of such data to each Participant whose confidential information or data will be used to create the composite or aggregated data. If any such Participant objects to the form and format as revealing or allowing for attribution of confidential or commercially sensitive Participant-specific data, WPP staff shall determine whether to modify the form and format or to retain the proposed form and format for release. If WPP staff elects to retain the proposed form and format, the Participant shall have the right to appeal to the RAPC and WPP staff shall be prohibited from releasing the composite or aggregated data in the proposed form and format until the Participant’s appeal rights as specified in this Section 10.2.1

are exhausted.

- 10.2.1.2 If a Participant appeals a WPP staff decision regarding the form and format of composite or aggregated data to the RAPC, the RAPC shall consider whether the form and format reveals or allows for attribution of confidential or commercially sensitive Participant-specific data. If the RAPC determines that the proposed form and format is sufficient to protect against the release of confidential or commercially sensitive Participant-specific data, WPP staff is authorized to release the composite or aggregated data in the proposed form and format unless the Participant timely appeals the RAPC decision to the Board of Directors.
- 10.2.1.3 If a Participant appeals a RAPC decision regarding the form and format of composite or aggregated data to the Board of Directors, the Board of Directors shall consider whether the form and format is sufficient to protect against the release or attribution of confidential or commercially sensitive Participant-specific data. If the Board of Directors determines that the proposed form and format is sufficient to protect against the release of confidential or commercially sensitive Participant-specific data, WPP staff is authorized to release the composite or aggregated data in the proposed form and format.
- 10.2.1.4 Once a proposed form and format of composite or aggregated data is approved by the WPP staff and is not appealed or appeals are unsuccessful, such form and format may be used for all future disclosures of composite or aggregate information and no Participant may dispute such release. If WPP staff proposes to alter the form and format, including but not limited to changing the granularity of data, WPP staff shall be required to follow the process set forth in this Section 10.2.1 and Participants shall have the right to appeal such changes in form and format as set forth herein. Notwithstanding the foregoing, if the composition of Participants in the WRAP changes in such a way that the form and format of composite or aggregated data is no longer sufficient to protect against disclosure or attribution of confidential or commercially sensitive Participant-specific data, an aggrieved Participant shall have a one-time right to raise the issue promptly with WPP Staff for presentation to and review by the Board of Directors, and the Board of Directors in its sole discretion shall decide whether the change in composition results in the form and format of the composite or aggregated data becoming insufficient to

protect against the release or attribution of confidential or commercially sensitive Participant-specific data; provided, however, that if an aggrieved Participant does not raise its concerns with the Board of Directors promptly following the change in composition, such Participant shall have waived its right to contest the release of such composite or aggregated data.

10.2.2 Notwithstanding anything to the contrary in this Section 10.2, if the RAPC unanimously votes to disclose publicly any particular category of Participant-specific data, such data shall no longer be deemed confidential regardless of any such designation by a disclosing Participant, and this election shall be binding on any current and future Participants until such time as the RAPC votes unanimously to prohibit public release of such category of data. A list of the categories of Participant-specific data that the RAPC unanimously votes to make public shall be included in the Business Practice Manuals.

10.3 Access to Confidential or Commercially Sensitive Information: Except as otherwise provided in Section 10.2 of this Tariff, no Participant, entity owning a Qualifying Resource, or any third party shall have the right hereunder to receive from WPP or to otherwise obtain access to any documents, data or other information that has been identified as or deemed to be confidential or commercially sensitive under Section 10.2 of this Tariff by a disclosing Participant. The provisions of this Section 10.3 do not apply to WPP (including any Independent Evaluator, member of the Board of Directors, or any WPP officer, employee, agent, or consultant that requires access to confidential or commercially sensitive information); provided that access to Participant-specific confidential or commercially sensitive information shall be solely for the purpose of performing the duties or functions under this Tariff or otherwise advising or assisting WPP. WPP shall develop internal policies and controls governing the handling and protection of confidential or commercially sensitive Participant-specific data by members of the Board of Directors, officers, employees, agents, consultants, or any Independent Evaluator.

10.4 Exceptions: Notwithstanding anything in this Section 10 to the contrary:

10.4.1 If WPP is required by applicable laws or regulations, or in the course of administrative or judicial proceedings, to disclose information that is otherwise required to be maintained in confidence pursuant to this Section 10, WPP may disclose such information; provided, however, that as soon as practicable after WPP learns of the disclosure requirement and prior to making such disclosure, WPP shall notify any affected disclosing Participant of the requirement and the terms thereof. Any such disclosing Participant may, at its sole discretion and own cost, direct any challenge to or defense against the disclosure requirement and WPP shall cooperate with such disclosing Participant to take all reasonable available steps to oppose

or otherwise minimize the disclosure of the information permitted by applicable legal and regulatory requirements. WPP shall further cooperate with such disclosing Participant to the extent reasonably practicable to obtain proprietary or confidential treatment of confidential or commercially sensitive information by the person to whom such information is disclosed prior to any such compelled disclosure.

- 10.4.2 WPP may disclose confidential or commercially sensitive information, without notice to any affected disclosing Participant(s), in the event that FERC, during the course of an investigation or otherwise, requests information that is confidential or commercially sensitive. In providing the information to FERC, WPP shall take action, consistent with 18 C.F.R. §§ 1b.20 and/or 388.112, to request that the information be treated by FERC as confidential and non-public and, if appropriate, as Critical Energy Infrastructure Information and that the information be withheld from public disclosure. WPP shall provide the requested information to FERC within the time provided for in the request for information. WPP shall notify any affected disclosing Participant(s) within a reasonable time after WPP is notified by FERC that a request for disclosure of, or decision to disclose, the confidential or commercially sensitive information has been received, at which time WPP and any affected disclosing Participant may respond before such information would be made public.
- 10.5 Notwithstanding any efforts undertaken pursuant to Section 10.4 to prevent or limit the release of a Participant's confidential or commercially sensitive information, in the event that FERC or a court of competent jurisdiction orders or otherwise permits the public release of a Participant's confidential or commercially sensitive information, the affected Participant shall have a one-time right to elect to terminate its participation in the WRAP under the expedited termination provisions set out in Section 11.2 of the WRAPA.
- 10.6 WPP shall handle any information identified or deemed to be Controlled Unclassified Information/Critical Energy Infrastructure Information in accordance with FERC's regulations set forth at 18 C.F.R. § 388.113 and any applicable FERC policies or other regulations, including but not limited to restricting access to such information on a password-protected portion of WPP's website or similar precautions.
- 10.7 Nothing in this Section 10 is intended to limit a Participant's ability to disclose or release publicly its own confidential or commercially sensitive information or data, or to limit a Participant's ability to authorize WPP's disclosure of such material to a specified recipient.

11. Timing

- 11.1 In the event that any deadline specified in this Tariff shall fall on a day that is not a Business Day, the deadline shall be extended to the next Business Day.

12. Application and Registration

- 12.1 Any entity wishing to participate in the WRAP must submit an application and registration in accordance with the Business Practices Manuals and must execute the WRAPA as set forth in Attachment A of this Tariff, or a non-conforming version of such participation agreement that is approved by FERC for an individual Participant. Such application and registration must be submitted in accordance with the timelines set forth in the Business Practices Manuals in advance of the next Binding Season.
- 12.2 Each Participant must register all of its resources and loads, regardless of whether such resources will be used to satisfy the WRAP requirements and regardless of whether certain loads will be subject to the requirements of the WRAP. Participants may modify their registration of resources and loads in accordance with the timing procedures set forth in the Business Practices Manuals.
- 12.3 In the event that more than one Participant attempts to register the same resource or load, the following procedure will be used to assign the resource or load to a Participant:
 - 12.3.1 If a Participant attempts to register a load or resource that has already been registered by a different Participant, the resource or load will remain registered by the original Participant registering the resource or load until such time as both Participants mutually inform WPP that a change to the registration is required.
 - 12.3.2 If two or more Participants attempt to register the same resource or load during the same registration window, WPP shall request that the Participants determine among themselves the appropriate registration of the resource or load before that resource or load is included in the WRAP.

PART II FORWARD SHOWING PROGRAM

13. Overview

- 13.1 In the Forward Showing Program, as set forth in this Part II of the Tariff, and as further detailed in the Business Practice Manuals, each Participant shall, in advance of each Binding Season, show as to such Binding Season: (i) the total capacity, referred to and defined herein as the FS Capacity Requirement, required by the provisions of this Tariff for such Binding Season for reliable service to the loads for which such Participant is responsible; (ii) the demonstration of capacity, referred to and defined herein as the Qualifying Capacity Contribution, or QCC, provided by the Qualifying Resources the Participant provides or procures to meet its FS Capacity Requirement; and (iii) at least the minimum level of firm transmission service, referred to and defined herein as the FS Transmission Requirement, needed for reliable delivery of the QCC of the Participant's Qualifying Resources from such resources to the loads for which the Participant is responsible.
- 13.2 As also set forth in this Part II of the Tariff, and as further detailed in the Business Practice Manuals: (i) WPP shall, in advance of each Binding Season, review the Forward Showing Submittals of each Participant for such Binding Season; (ii) WPP shall identify to the Participant any deficiencies in the Participant's Portfolio QCC (whether as to contracts or directly owned or controlled resources) relative to the FS Capacity Requirement, and any deficiencies in the identified firm transmission service relative to the FS Transmission Requirement, within sixty days of the Forward Showing Submittal deadline; (iii) the Participant shall have an opportunity to cure such deficiencies, within sixty days of notification of deficiency; and (iv) if the Participant fails to cure all such deficiencies on or before the deadlines prescribed herein, the Participant shall be assessed a Forward Showing Deficiency Charge.

14. Forward Showing Program Process and Timeline

14.1 The Forward Showing Program has two Binding Seasons, defined as the Summer Season and the Winter Season. The Summer Season is the period beginning on June 1 of each Year and ending on September 15 of that same Year. The Winter Season is the period beginning on November 1 of each Year and ending on March 15 of the succeeding Year. This Tariff does not establish resource or showing obligations outside the periods defined by the Summer Season and Winter Season.

14.2 Each Participant shall submit its Forward Showing Submittals for each Month of each Binding Season, with all required supporting materials and information as detailed in the Business Practice Manuals, on or before the FS Deadline for the Binding Season. The FS Deadline for each Binding Season shall be seven months before the start of such Binding Season.

14.2.1 Forward Showing Submittal:

14.2.1.1 Absent the exception in Section 14.2.1.2, each Participant shall submit a separate Forward Showing Submittal for loads for which it is responsible if transmission constraints between areas where its loads are located, including, without limitation, when Participant is responsible for loads in more than one Subregion, prevent application, in the manner more fully described in the Business Practice Manuals, of Resource QCC or Net Contract QCC from one load area to the FS Capacity Requirement of another load area.

14.2.1.2 Notwithstanding Section 14.2.1.1, a Participant responsible for loads in two Subregions may submit for a given Month a single Forward Showing Submittal for such loads, and may employ for determination of its FS Capacity Requirement for such Month the lower of the two FSPRM values determined for the Subregions where its loads are located, if the Participant demonstrates in such Forward Showing Submittal, in accordance with the procedures and requirements set forth in the Business Practice Manuals, transmission service rights of the type required by the FS Transmission Requirement, in a quantity, in addition to that required by the FS Transmission Requirement, equal to the difference in the two FSPRM values multiplied by the Participant's P50 Peak Load Forecast for such Month, with a point of delivery in the Subregion with the higher FSPRM value and the point of receipt in the Subregion with the lower FSPRM value. Each such showing shall identify the MW quantity, Month of service, point of receipt, and point of delivery of such transmission service rights, and such other information as specified in the Business Practice Manuals, and shall verify that the offered rights are NERC Priority 6 or NERC Priority 7 firm point-to-point transmission service.

14.2.2 Each Participant's Forward Showing Submittal shall include a Senior Official Attestation.

14.3 The FSPRM values used in the Forward Showing Submittals for a Binding Season shall be those values approved by the Board of Directors as the culmination of an Advance Assessment process. No later than twelve months before the FS Deadline for each Binding Season, WPP will determine and post the recommended FSPRM for each Subregion for each Month of such Binding Season. Participants shall provide their load, resource and other information reasonably required to perform the analyses and calculations required for the Advance Assessment, in accordance with the Advance Assessment information submission details and schedule specified in the Business Practice Manuals. No later than nine months before the FS Deadline for such Binding Season, the Board of Directors shall take its final action regarding approval of the FSPRM values for each Month of such Binding Season.

14.3.1 In connection with an Advance Assessment process, or otherwise in connection with consideration of a change to the Business Practice Manuals, the Board of Directors may determine that designation of Subregions would encourage the relief, in whole or part, of transmission constraints on the transfer of capacity within the WRAP Region (whether through development or commitment of transmission, of Qualifying Resources, or by other means) to the benefit of the WRAP Region and the advancement of the objectives of the WRAP. Each such Subregion shall be identified in the Business Practice Manuals.

14.3.2 Any Participant may choose to offer in the Advance Assessment process transmission service rights owned or controlled by such Participant for firm delivery of capacity from one Subregion to another Subregion, for use by other Participants under the terms of Part III of this Tariff during any or all identified Months of the applicable Binding Season. Each such offer shall identify the MW quantity, Month of service, point of receipt, and point of delivery of such transmission service rights, and such other information as specified in the Business Practice Manuals, and shall verify that the offered rights are NERC Priority 6 or NERC Priority 7 firm point-to-point transmission service. No Participant is obligated to offer any such transmission service rights in the Advance Assessment process, but any offer so made and not withdrawn before the deadline during the Advance Assessment process specified in the Business Practice Manuals shall be considered a binding offer of the identified transmission service rights which may not be withdrawn before the end of the last Day of the Month for which such transmission service is offered. WPP shall take account of such offered transmission service rights, along with other transmission deliverability reasonably anticipated to be available for use by Participants for WRAP purposes during the applicable Binding Season in its determination of the recommended FSPRM values for each Month of the

applicable Binding Season for the WRAP Region and for each affected Subregion.

- 14.4 No later than sixty Days after the FS Deadline for a Binding Season, WPP will (i) provide the values of the Participant's FS Capacity Requirement and FS Transmission Requirement for each Month of the Binding Season; (ii) affirm that the Portfolio QCC of such Participant for each Month of the Binding Season equals or exceeds the FS Capacity Requirement of such Month for such Participant or notify such Participants of any deficiencies in the Forward Showing Submittal that result in a failure to demonstrate satisfaction of the FS Capacity Requirement; and (iii) affirm that the Demonstrated FS Transmission plus approved Monthly Transmission Exceptions of such Participant for each Month of the Binding Season equals or exceeds the FS Transmission Requirement of such Month for such Participant or notify such Participants of any deficiencies in the Forward Showing Submittal that result in a failure to demonstrate satisfaction of the FS Transmission Requirement.
- 14.5 Within 120 Days after the FS Deadline, the Participant shall (i) submit revisions to its Forward Showing Submittal, including, without limitation, additions or revisions to the Participant's Resource QCC, Net Contract QCC, or Demonstrated FS Transmission; (ii) in order to fully cure all identified deficiencies and demonstrate that such Participant's Portfolio QCC for each Month of the Binding Season equals or exceeds its FS Capacity Requirement; and (iii) fully provide Demonstrated FS Transmission for each Month of the Binding Season that equals or exceeds its FS Transmission Requirement for the same Month of the Binding Season where WPP identified deficiencies.
- 14.5.1 Any Participant that fails to cure identified deficiencies in its Forward Showing Submittal within the period prescribed above shall be assessed a Deficiency Charge.

15. Transition Period

- 15.1 Except as specified in Section 15.1.1, the Binding Season beginning November 1, 2027, will be the first Binding Season for which all Participants will assume the obligations of demonstrating capacity and making surplus capacity available to other Participants and will receive the benefits of reliance upon other Participants' surplus capacity. Any Binding Season during the Transition Period occurring before November 1, 2027, shall be a Non-Binding Season, as specified in Section 15A of this Tariff.
 - 15.1.1 No later than January 15, 2026, a Participant may elect the Binding Season beginning June 1, 2027, as the first Binding Season for which it will assume the obligations of demonstrating capacity and making surplus capacity available to other Participants and will receive the benefits of reliance upon other Participants' surplus capacity by providing written notice of its election.
- 15.2 Within two years prior to the start of the first Binding Season of the WRAP, a Participant who has elected to participate in the first Binding Season may request a vote of all Participants who have elected to participate in the first Binding Season to delay implementation of the first Binding Season for up to two Seasons. Delayed implementation of the first Binding Season shall be approved if 75% of the Participants who elected to participate in the first Binding Season vote in favor of such delay, with approval requiring a vote of 75% of both the House and Senate vote tallies (as described in Sections 4.1.6.2.1 and 4.1.6.2.2 of this Tariff) of all Participants who elected to participate in the first Binding Season.
 - 15.2.1 The deferral vote may only occur for the first Binding Season of the WRAP. If the Participants who elected to participate in the first Binding Season of the WRAP vote to delay implementation of the first Binding Season, all compliance charges for the Forward Showing Program and Operations Program are automatically deferred; except that the Participants may vote to delay implementation only of the Operations Program portion of the first Binding Season and retain the binding Forward Showing Program portion of the first Binding Season.

15A. Non-Binding Seasons

- 15A.1 A Participant will participate as a Non-Binding Participant for certain Binding Seasons in the Transition Period, as detailed in Section 15.1 of this Tariff, and when Critical Mass is not achieved for a given Binding Season, as detailed in Section 15A.2 of this Tariff. As to a Non-Binding Season, the Participant:
- 15A.1.1 Shall not be subject to Deficiency Charges, Transmission Deficiency Charges, Holdback Requirements, Energy Deployment obligations, or Delivery Failure Charges;
 - 15A.1.2 Shall submit Forward Showing Submittals but shall not be required to cure deficiencies;
 - 15A.1.3 Shall not have a mandatory Holdback Requirement as a result of the Sharing Calculation;
 - 15A.1.4 May only receive Holdback Capacity offered voluntarily by other Participants in accordance with Part III of this Tariff; and
 - 15A.1.5 Shall have all rights and be subject to all obligations under Part I of this Tariff and the Participant's WRAPA, including, without limitation, voting rights, committee participation, and the obligation to pay the WRAP Administration Charge.
- 15A.2 Once WPP has given notice to Participants that their Subregion does not have Critical Mass for a given Binding Season, each such Participant will have 30 days to provide notice to WPP if it intends to participate as a Non-Binding Participant for that Binding Season. Such notice and election will be given similarly for each season without Critical Mass participation.

16. Components of the Forward Showing

16.1 FS Capacity Requirement. The FS Capacity Requirement shall be determined for each Participant on a monthly basis by applying the applicable Monthly FSPRM for a Month to such Participant's peak load forecast for that Month. The Participant's peak load forecast for a given Month of a Binding Season will be the P50 Peak Load Forecast for the Binding Season multiplied by a shaping factor based on the historical relationship, for such Participant, of the seasonal peak for the Winter Season or Summer Season, as applicable, and the monthly peaks for the Months in such season, as more fully described in the Business Practice Manuals.

16.1.1 P50 Peak Load Forecast. The P50 Peak Load Forecast is a peak load forecast prepared on a basis, such that the actual peak load is statistically expected to be as likely to be above the forecast as it is to be below the forecast. The Business Practice Manuals shall specify an approved load forecasting methodology for use by all Participants for their WRAP-required load forecasts which shall include (i) a base monthly peak derived from a recent historical period that recognizes additions and removals of load during the historical period, (ii) adjustments for known additions and removals of load during the forecast window; and (iii) a specified load growth factor.

16.1.2 FS Planning Reserve Margin

16.1.2.1 The FSPRM is an increment of resource adequacy supply needed to meet conditions of high demand in excess of the applicable peak load forecast and other conditions such as higher resource outages, expressed as a percentage of the applicable peak load forecast. The FSPRM shall be determined based on probabilistic analysis, taking account of uncertainties in generation and load, as the margin above peak load that provides an expectation of no more than a single event-day of loss of load in ten years (sometimes referred to herein as the "1-in-10 LOLE") for each Binding Season. The FSPRM shall be determined in a manner that accounts for the governing principles of QCC value determinations set forth in Section 16.2.5 of this Tariff and shall employ the applicable peak load for the applicable Binding Season and Months. Additional details, assumptions, methodologies, and procedures for determination of the FSPRM shall be as set forth in the Business Practice Manuals.

16.1.2.2 WPP shall calculate in the Advance Assessment process the recommended Monthly FSPRM for each Month of each Binding Season, for approval by the Board of Directors as set forth in this Part II.

16.1.2.3 The FSPRM shall employ (i) a simulated resource stack using capacity accreditation principles consistent with those used for WRAP QCC determinations; (ii) an adjustment in the total WRAP-required QCC value as needed to meet a 1-in-10 LOLE for each Binding Season, and (iii) while maintaining the 1-in-10 LOLE for each Binding Season in (ii), include a monthly reduction of capacity to ensure that each Month has at least 0.01 annual LOLE. The FSPRM for a Month shall be the simulated QCC as adjusted to meet the 1-in-10 LOLE for each Binding Season minus the P50 Peak Load Forecast for the Month, divided by the P50 Peak Load Forecast for the Month.

16.1.2.4 The FSPRM shall include an approximation of Contingency Reserves as set forth in the Business Practice Manuals.

16.1.3 Contingency Reserves Adjustment. A Participant's FS Capacity Requirement will be adjusted as set forth in the Business Practice Manuals to account for changes in Contingency Reserve requirements resulting from energy contract purchases and contract sales.

16.1.4 A Participant responsible for loads located in a Subregion for which an FSPRM value has been determined that is higher than the FSPRM value determined for a different Subregion may, in lieu of demonstrating a MW increment of Portfolio QCC otherwise required to satisfy such Participant's FS Capacity Requirement for a given Month, demonstrate in its Forward Showing Submittal, in accordance with the procedures and requirements set forth in the Business Practice Manuals, transmission service rights of the type required by the FS Transmission Requirement, in a quantity, in addition to that required by the FS Transmission Requirement, that is no greater than the difference in the two FSPRM values multiplied by the Participant's P50 Peak Load Forecast, with the point of delivery in the Subregion with the higher FSPRM value and the point of receipt in the Subregion with the lower FSPRM value. The MW quantity of the additional transmission so demonstrated shall reduce for such Month, by the same MW quantity, the Portfolio QCC the Participant would otherwise be required to demonstrate to satisfy its FS Capacity Requirement for such Month. Each such demonstration shall identify the MW quantity, Month of service, point of receipt, and point of delivery of such transmission service rights, and such other information as specified in the Business Practice Manuals, and shall verify that the offered rights are NERC Priority 6 or NERC Priority 7 firm point-to-point transmission service.

16.2 Qualified Capacity Contribution

16.2.1 For each Participant and each Binding Season, the Forward Showing shall show and support the Portfolio QCC, which shall be the sum of the QCC of the Participant's Qualifying Resources ("Resource QCC"), the QCC of its

contracted capacity (“Net Contract QCC”), and any transfers of capacity already accredited by another Participant (“Total RA Transfer,” which could be positive or negative). The Portfolio QCC effective for a Binding Season shall be the value determined by WPP.

- 16.2.2 A resource will not be assigned a Resource QCC or counted toward Portfolio QCC unless it is a Qualifying Resource. Qualifying Resources are those that, before they are included in a Forward Showing Submittal, are first registered with WPP. A Participant seeking registration of a resource must submit a request for registration providing the resource information described in the Business Practice Manuals.
- 16.2.3 The minimum resource size for registration of a resource is 1 MW, provided, however, that Participants with responsibility for individual resources of less than 1 MW may aggregate them to meet the 1 MW minimum requirement, under the conditions and limitations specified in the Business Practice Manuals.
- 16.2.4 A Participant may include in its Forward Showing Submittal a request for an exception from its FS Capacity Requirement for an insufficiency of its Portfolio QCC solely due to (i) a catastrophic failure of one or more Qualifying Resources due to an event of Force Majeure as defined by Section 8.1 of this Tariff that (ii) the Participant is unable to replace on commercially reasonable terms prior to the FS Deadline as a result of the timing and magnitude of such catastrophic failure and its consequences. As more fully set forth in the Business Practice Manuals, such exception request shall be supported by a Senior Official Attestation. The exception request must include complete information on the nature, causes and consequences of the catastrophic failure, and must describe the Participant’s specific, concrete efforts prior to the FS Deadline to secure replacement Qualifying Resources for the applicable Binding Season. WPP will consider the exception criteria established by this section, the information provided in the exception request, the completeness of the exception request, and other relevant data and information, in determining whether to grant or deny an FS Capacity Requirement exception request. WPP shall provide such determination no later than sixty days after submission of such Participant’s FS Submittal containing such FS Capacity Requirement exception request. A Participant granted an exception hereunder must complete a monthly exception check report demonstrating that either the circumstances necessitating the exception have not changed; or that Qualifying Resources have become available, and the Participant has acquired them and no longer requires the exception. Failure to timely submit a required monthly report will result in assessment of a Deficiency Charge, unless the deficiency is cured within seven days of notice of non-compliance. A Participant denied an exception request hereunder may appeal such denial to the Board of Directors in accordance with the procedures and deadlines set forth in the Business Practice Manuals. In

such event, the requested exception shall be denied or permitted as, when and to the extent permitted by the Board, in accordance with the procedures and timing set forth in the Business Practice Manuals. WPP shall give notice of any exception granted hereunder in the time and manner provided by the Business Practice Manuals.

16.2.5 QCC: WPP shall determine QCC values for the resource types specified below in accordance with the governing principles specified below for each resource type, and consistent with further details specified for each resource type in the Business Practice Manuals.

16.2.5.1 For resources that use conventional thermal fuels, including but not limited to, coal, natural gas, nuclear, and biofuel, WPP will determine QCC based on an Unforced Capacity methodology that employs resource-specific capability testing and capability requirements to determine an Installed Capacity value, and a forced outage calculation methodology based on historical performance during Capacity Critical Hours over a specified multi-year period (excluding outages properly reported as “outside management control”), or based on class-average forced outage data, as specified in the Business Practice Manuals, if there is insufficient data on historical performance.

16.2.5.2 For resources that are Variable Energy Resources, including, but not limited to, wind and solar resources, WPP will determine QCC based on an ELCC methodology, that accounts for synergistic portfolio effects within and among VER types at different resource penetration levels that influence the extent to which the WRAP Region can rely on those VER categories to meet overall capacity needs.

16.2.5.2.1 For such purpose, a separate ELCC value will be calculated in the aggregate for all VER resources of a given type in an identified VER Zone, to be delineated in the Business Practice Manuals based on factors such as geography, performance, meteorological considerations, and penetration.

16.2.5.2.2 As more fully described in the Business Practice Manuals, the zonal aggregate VER-resource-type value will be calculated by (i) conducting a benchmark LOLE study that includes all resource types except the VER resource type being studied, employing a model and assumptions consistent with those used to calculate FSPRM, and adding, or subtracting, the same MW quantity of Pure Capacity to every hour of the applicable Binding Season until,

respectively, an initial LOLE value above 0.1 day per Binding Season becomes 0.1 day per Binding Season, or an initial LOLE value below 0.1 day per Binding Season becomes 0.1 day per Binding Season; (ii) conducting an LOLE study that includes all resource types including the VER resource type being studied, employing a model and assumptions consistent with those used to calculate FSPRM, and adding, or subtracting, the same MW quantity of Pure Capacity to every hour of the applicable Binding Season until, respectively, an initial LOLE value above 0.1 day per Binding Season becomes 0.1 day per Binding Season, or an initial LOLE value below 0.1 day per Binding Season becomes 0.1 day per Binding Season; and (iii) subtracting the Pure Capacity value determined under subpart (ii) from the Pure Capacity value determined under subpart (i) (for which calculation a Pure Capacity value subtracted from each hour in either subpart (i) or subpart (ii) will be assigned a negative value; (iv) repeating steps (i) through (iii) for each Binding Season of the study period employing historical, or as necessary, synthesized, data; and (v) basing the aggregate value of the studied VER resource type for the studied VER Zone on the results of the calculation in step (iii) for the Binding Seasons studied, which may include differential weighting of the Binding Seasons studied as appropriate to improve the quality and predictive capacity of the final result.

16.2.5.2.3 The aggregate capacity calculated for each VER resource type in each VER Zone will then be allocated to VERs of that type in that VER Zone based on each such resource's average historical performance if at least three years of historical performance or three years of synthesized forecast data during the 50, [WRAP-Rof the Subregion in which the VER Zone is located](#)'s CCH is available at the time of such allocation. If three years historical performance or synthesized forecast data is not then available, the average ELCC from the VER Zone will be assigned.

16.2.5.3 For resources that are Energy Storage Resources, WPP will determine QCC based on an ELCC methodology comparable to that used for VERs. The ELCC methodology will model Energy

Storage Resources at the level of their usable capacity that can be sustained for a minimum duration of four hours. An Energy Storage Resource need not have a nameplate rating that assumes a minimum of four hours in order to receive a QCC determination, but the QCC in that case will be scaled to reflect the capability that can be sustained for four hours, as more fully described in the Business Practice Manuals.

- 16.2.5.4 A Participant's Demand Response used as a Demand Response Capacity Resource must be controllable and dispatchable by the Participant or by the host utility, and must have met certain testing requirements consistent with Business Practice Manuals. WPP will determine Demand Response Load Modifier QCC by multiplying the load reduction in MWs by the number of hours the resource can demonstrate load reduction capability (for a period of up to five continuous hours) divided by five. The effects of Demand Response used as a Demand Response Capacity Resource must not be included in load provided for a Participant's Advance Assessment.
- 16.2.5.5 For Storage Hydro Qualifying Resources, the Participant will calculate a QCC based on a methodology detailed in the Business Practice Manuals that: (i) considers each resource's actual generation output, residual generating capability, water in storage, reservoir levels, and flow or project constraints over the previous ten-year historical period; (ii) determines the project's QCC by assessing the historical generation during CCHs on any given day and ability to increase generation during CCHs on the same day, subject to useable water in storage, inflows/outflows, and expected project operating parameters/constraints and limitations; (iii) incorporates forced outage rates; and (iv) determines QCC as average contribution to the CCH for each Winter Season and Summer Season over the previous ten years. If ten years of historical data is not available for the Storage Hydro Qualifying Resource, the Participant may alternatively employ data on the same metrics from a demonstrably comparable facility or apply another method that provides reasonable confidence in the reliability of the predicted values, as more fully set forth in the Business Practice Manuals. The Participant's QCC calculation shall be subject to review and validation by WPP. In connection with such review, the Participant shall provide WPP with the following information necessary to calculate a QCC for Storage Hydro Qualifying Resources: (i.a) historical reservoir elevation levels; (ii.a) historical plant generation; (iii.a) elevation versus capacity curves; (iv.a) any minimum or maximum reservoir level constraints; (v.a) forced outage rates; (vi.a) volume of water

versus reservoir elevation storage tables; and (vii.a) turbine discharge versus generation efficiency curve.

16.2.5.6 For Run of River Qualifying Resources, WPP will determine QCC based on the monthly average performance of such resource during Capacity Critical Hours, as further specified in the Business Practice Manuals

16.2.5.7 For resources that (i) are not within the meaning of any of Sections 16.2.5.1 through 16.2.5.5, and that (ii) either (a) are not dispatchable; or (b) require the purchaser of energy from the resource to take energy as available from such resource, including but not limited to a qualifying facility as defined under the Public Utility Regulatory Policies Act of 1978, WPP will determine QCC based on the monthly average performance of such resource during Capacity Critical Hours, as further specified in the Business Practice Manuals.

16.2.6 Net Contract QCC: WPP shall determine Net Contract QCC for the agreement types specified below in accordance with the governing principles specified below for each agreement type, and consistent with further details specified for each agreement type in the Business Practice Manuals. Net Contract QCC may be either positive or negative, to take account of, for example, a Participant's agreements for the sale of capacity to any other party.

16.2.6.1 Absent one of the exceptions described and limited below, capacity supply agreements qualifying for a Net Contract QCC in the WRAP must be resource specific, and therefore must include, among other requirements, an identified source, an assurance that the capacity is not used for another entity's resource adequacy requirements, an assurance that the seller will not fail to deliver in order to meet other supply obligations, and affirmation of NERC Priority 6 or 7 firm point-to-point transmission service rights or network integration transmission service rights from the identified resource to the point of delivery/load. The specific resources identified in a capacity supply agreement qualifying for Net Contract QCC shall meet the same Resource QCC accreditation requirements for the given resource type, as specified in Section 16.2.5.

16.2.6.2 A system sales contract can qualify for a Net Contract QCC value, provided that if the seller is not a Participant, the system capacity that is the subject of the agreement must be deemed surplus to the seller's estimated needs, there must be an assurance that the seller will not fail to deliver in order to meet other commercial obligations, and there must be NERC Priority

6 or 7 firm point-to-point transmission service rights or network integration transmission service rights from the identified resource to the point of delivery/load. Surplus status may be demonstrated by a Senior Official Attestation with pertinent supporting details for such surplus status, including written assent of the non-Participant Seller, secured by the purchasing Participant. Such attestation is not required if the seller is a Participant, because the information needed to verify surplus status is already available.

- 16.2.6.3 A supply agreement entered into prior to October 1, 2021 (“Legacy Agreement”) can qualify for a Net Contract QCC value; provided that where a legacy agreement does not identify the source, it must be possible for WPP to presume a source or sources for the contract, including with the written assent of the supplier under such Legacy Agreement, conveyed in the form and manner set forth in the Business Practice Manuals. A Legacy Agreement for which such resource determination cannot be reasonably made will not be counted as adding to the Portfolio QCC.
- 16.2.7 Total RA Transfer: A Participant may agree with another Participant on a transfer of a portion of its Portfolio QCC to meet the other’s FS Capacity Requirement (“RA Transfer”), provided that the details and duration of such transfer are reported to WPP for validation in accordance with procedures and information requirements specified in the Business Practice Manuals. Where such transfers have been duly reported and validated, an RA Transfer will be added to the purchasing Participant’s Portfolio QCC and subtracted from the selling Participant’s Portfolio QCC.
- 16.2.8 Planned Outages: Participants shall include in their Forward Showing Submittal for a Binding Season information on all Qualifying Resources that are currently out of service with a scheduled return date that falls during the Binding Season or after the Binding Season. Capacity associated with such resources must be deducted from Participants’ Portfolio QCC as specified in the Business Practice Manuals 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 the time of submission must be within the Participant’s remaining surplus (or replaced with other supply). Participants may provide information on all Qualifying Resources that are planned to be out of service but if such data cannot be supplied with reasonable specificity, a Participant may provide a Senior Official Attestation at the time of the submission of its FS Submittal that it expects the sum of planned outages to be equal to or less than the surplus stated in its FS Submittal throughout the Binding Season.

- 16.2.8.1 If a Qualifying Resource is planned to return to service within the first five days of a Binding Season, WPP may approve a qualified acceptance of the FS Submittal, provided the deficiency is less than 500 MW.
- 16.2.8.2 A planned outage shall not justify a waiver of or exception to a Participant's holdback or energy delivery obligations under Part III of this Tariff. Participants will be expected to procure the necessary capacity or energy to meet the Operations Program requirements, regardless of planned outage schedules or FS Submittal acceptance.

16.3 FS Transmission Requirement

- 16.3.1 As part of its Forward Showing Submittal for a Binding Season, each Participant must demonstrate, as specified in the Business Practice Manuals, that it has secured firm transmission service rights, including under supply arrangements with a third party that holds or has committed transmission service rights, sufficient to deliver a MW quantity equal to at least 75% of the MW quantity of its FS Capacity Requirement. To the extent a Participant holds transmission service rights with a point of receipt at a Qualifying Resource, or in connection with an RA Transfer to such Participant, any such rights from such point in a MW quantity, respectively, in excess of the QCC of such Qualifying Resource, or in excess of the value of such RA Transfer, shall not contribute toward satisfaction of such Participant's FS Transmission Requirement. The FS Transmission Requirement must be met with NERC Priority 6 or NERC Priority 7 firm point-to-point transmission service or network integration transmission service, from such Participant's Qualifying Resource(s) or from the delivery points for the resources identified for its Net Contract QCC or for its RA Transfer to such Participant's load. Notwithstanding the foregoing, authorized use of Capacity Benefit Margin will satisfy the FS Transmission Requirement. Demonstration of the FS Transmission Requirement shall not, in and of itself, relieve any Participant of responsibility for a Delivery Failure Charge as determined under Section 20.7 if such Participant's failure to obtain or maintain firm transmission service of the type and quantity expected by the Operations Program, as described in Section 20.6 of this Tariff, caused or contributed to an Energy Delivery Failure.
- 16.3.2 A Participant may include in its Forward Showing Submittal a request for an exception from a limited part of its FS Transmission Requirement, provided the exception request meets the terms, conditions, and limitations of one or more of the following four exception categories below. As more fully set forth in the Business Practice Manuals, such exceptions may be subject to overall WRAP limits, and shall be supported by a Senior Official Attestation. WPP will consider the exception category terms, conditions and limitations set forth below, and may consider the completeness of the

exception request, information from transmission service providers, OASIS data, and data readily available to WPP from other reliable and validated sources concerning the duration, timing, firmness and quantity of available transmission service or equivalent options (including transmission construction), in determining whether to grant or deny a transmission exception request. WPP shall provide such determination no later than sixty days after submission of such Participant's FS Submittal containing such transmission exception request. A Participant denied an exception request hereunder may appeal such denial to the Board of Directors in accordance with the procedures and deadlines set forth in the Business Practice Manuals. In such event, the requested exception shall be denied or permitted as, when and to the extent permitted by the Board, in accordance with the procedures and timing set forth in the Business Practice Manuals. WPP shall give notice of any exception granted hereunder in the time and manner provided by the Business Practice Manuals. A Participant granted a transmission exception under either Section 16.3.2.1 or Section 16.3.2.2 must complete a monthly transmission exception check report demonstrating that either (i) the circumstances necessitating the exception have not changed; (ii) transmission has become available and the Participant has acquired it; or (iii) the Participant has acquired a different resource, and associated transmission service rights, and no longer requires the exception. Failure to timely submit a required monthly report will result in assessment of a Deficiency Charge, unless the deficiency is cured within seven days of notice of non-compliance.

16.3.2.1 Enduring Constraints. Participant is unable to demonstrate sufficient NERC Priority 6 or NERC Priority 7 firm point-to-point or network integration transmission service rights on any single segment of a source to sink path for a Qualifying Resource; and Participant demonstrates that no ATC for such transmission service rights is available (either from the transmission service provider or through a secondary market) at the FS Deadline on the applicable segment for the Month(s) needed (for a duration of one year or less) at the applicable Open Access Transmission Tariff rate or less; and Participant submits a Senior Official Attestation that Participant has taken commercially reasonable efforts to procure firm transmission service rights, and that Participant has posted Firm Transmission Requirements on a relevant bulletin board prior to the FS Deadline. In the event such transmission service rights are only available for a duration of more than one year (whether from the transmission service provider or through a secondary market) at the FS Deadline on the applicable segment for the Month(s) needed at the applicable Open Access Transmission Tariff rate or less, a Participant is not required to obtain such service in order to qualify for the Enduring Constraints exception hereunder. Notwithstanding the foregoing, if such Participant declines to obtain such available service and is granted the exception hereunder, such Participant shall not qualify

for an exception hereunder for the same path (or across the same constraint) for the same season of the subsequent year if the Participant again declines to obtain such transmission service rights that are available for a duration of more than one year. In addition to the foregoing, Participant must further demonstrate that there was remaining available transmission transfer capability (i.e., non-firm ATC after the fact) for all CCHs in the same season of the most recent year for which CCHs have been calculated in any Subregion in which the transmission segment exists; or, if the path was constrained in at least one CCH of the CCHs in the same season of the most recent year for which CCHs have been calculated in any Subregion in which the transmission segment exists, Participant in that case must demonstrate either that it is constructing or contracting for a new local resource for at least the amount of the exception requested, or that it is pursuing long-term firm transmission service rights by entering the long-term queue and taking all appropriate steps to obtain at least the amount of the exception requested.

- 16.3.2.2 Future Firm ATC Expected. Participant demonstrates that ATC for NERC Priority 6 or NERC Priority 7 firm point-to-point or network integration transmission service rights is not posted or available prior to the FS Deadline (for a duration of one year or less) at the applicable Open Access Transmission Tariff rate or less, and that the transmission service provider has, after the FS Deadline, released additional ATC for such transmission service rights along the applicable path in every one of the CCHs that have been calculated in any Subregion in which the applicable transmission segment exists for ~~of~~ the most recent year for which CCHs have been calculated for the Subregion ~~on the applicable path~~. In the event ATC for such transmission service rights is only posted or available prior to the FS Deadline for a duration of more than one year (whether from the transmission service provider or through a secondary market) on the applicable segment for the Month(s) needed at the applicable Open Access Transmission Tariff rate or less, a Participant is not required to obtain such service in order to qualify for the Future Firm ATC Expected exception hereunder. Notwithstanding the foregoing, if such Participant declines to obtain such available service and is granted the exception hereunder, such Participant shall not qualify for an exception hereunder for the same path (or across the same constraint) for the same season of the subsequent year if the Participant again declines to obtain such transmission service rights that are available for a duration of more than one year. The Participant must also demonstrate that the exception request meets volume and duration limitations specified in the Business Practice Manuals.

16.3.2.3 Transmission Outages and Derates. Participant demonstrates that an applicable segment of its existing transmission service rights from its source to sink path for its Qualifying Resource is expected to be derated or out-of-service and the ATC for NERC Priority 6 or NERC Priority 7 firm point-to-point or network integration transmission service rights is not otherwise available, and that the exception request meets volume and duration limitations specified in the Business Practice Manuals.

16.3.2.4 Counterflow of a Qualifying Resource. Participant demonstrates that either: (i) Participant's use of firm transmission service in connection with the delivery of capacity from Participant's Qualifying Resource (or from the resource associated with its Net Contract QCC) to Participant's load (or other qualifying delivery point permitted by the WRAP) or (ii) a second Participant's use of firm transmission service in connection with the delivery of capacity from the second Participant's Qualifying Resource (or from the resource associated with its Net Contract QCC) to the second Participant's load (or other qualifying delivery point permitted by the WRAP) provides a direct and proportional counterflow transmission that supports the first Participant's delivery of capacity from the first Participant's Qualifying Resource (or from the resource associated with its Net Contract QCC) to the first Participant's load (or other qualifying delivery point permitted by the WRAP) Qualifying Resource to their load. If the exception is requested under subpart (ii) of this subsection, the Participant requesting the exception shall include a written acknowledgement from the second Participant that it is aware of such exception request.

16.3.3 To the extent a Participant does not demonstrate satisfaction of its FS Transmission Requirement by the FS Deadline, the Participant may correct any such deficiency on or before the end of the cure period prescribed by Section 14.5 of this Tariff to avoid a Deficiency Charge.

16.3.4. Any deficiency of transmission service rights ultimately determined by WPP will be treated, for purposes of Deficiency Charge determinations, as in conjunction with, and not additive to, any deficiencies of QCC determined pursuant to Section 16.2.

17. Forward Showing Deficiency Charge

- 17.1 If a Participant fails during the cure period to demonstrate that it has resolved any identified deficiencies in either or both of its FS Capacity Requirement and its FS Transmission Requirement, the Participant will be assessed a Deficiency Charge for each Month for which a deficiency is identified in accordance with this section. In such case, the deficiency for which the Participant will be assessed a Deficiency Charge will be calculated in accordance with the following:

Participant's Monthly Capacity Deficiency = Maximum of (Monthly FS Capacity Requirement – Monthly Portfolio QCC, 0)

Participant's Monthly Transmission Deficiency (MW) = Maximum of ((75% × Monthly FS Capacity Requirement) – (Monthly Transmission Demonstrated + Approved Monthly Transmission Exemptions), 0)

Where Monthly Transmission Demonstrated is the amount of transmission service rights submitted by a Participant per the requirements in Section 16.3 and validated by WPP for each month.

Monthly Deficiency (MW) = Maximum of (Monthly Capacity Deficiency, Monthly Transmission Deficiency)

- 17.2 A Participant's Deficiency Charges shall be calculated as set forth in this Section 17.2, subject to the Transition Period rules in Section 17.3, and shall take account of multiple Monthly Deficiencies within a Forward Showing for a single Binding Season, multiple Deficiencies across a Forward Showing Year, consisting of a Summer Season and the immediately succeeding Winter Season, and any Monthly Deficiencies in a previous Forward Showing Year, in accordance with the following:

- 17.2.1 The Monthly Deficiency with the highest MW value in a Forward Showing for a Summer Season shall be assessed a Deficiency Charge equal to:

Max Summer Deficiency (MW) × Annual CONE (\$/kW-year) × 1000 × Summer Season Annual CONE Factor

- 17.2.2 Any other Monthly Deficiency in the Participant's Forward Showing for the same Summer Season shall be assessed a Deficiency Charge equal to:

Additional Summer Deficiency (MW) × (Annual CONE (\$/kW-year)/12) × 1000 × 200%

- 17.2.3 Any Monthly Deficiency in the Forward Showing for the immediately succeeding Winter Season with a higher MW value than the highest MW value of the Monthly Deficiency in the Summer Season shall be assessed a Deficiency Charge on the incremental MW value above the Summer Season equal to:

**Maximum of (Max Winter Deficiency – Max Summer Deficiency, 0)
(MW) × Annual CONE (\$/kW-year) × 1000 × Winter Season Annual
CONE Factor**

and in such case where there is a Monthly Deficiency in the Winter Season with a higher MW value than the highest MW value of any Monthly Deficiency in the Summer Season, the Monthly Deficiency with the highest MW value in the Summer Season shall be assessed an additional Deficiency Charge calculated in accordance with Section 17.2.2.

- 17.2.4 Any other Monthly Deficiency in the Participant's Forward Showing Submittal for the same Winter Season shall be assessed a Deficiency Charge equal to:

**Additional Winter Capacity Deficiency × (Annual CONE/12) × 1000 ×
200%**

- 17.2.5 For purposes of the above, CONE is the estimated cost of new entry of a new peaking natural gas-fired generation facility. The CONE estimate shall be based on publicly available information relevant to the estimated annual capital and fixed operating costs of a hypothetical natural gas-fired peaking facility. The CONE estimate shall not consider the anticipated net revenue from the sale of capacity, energy, or ancillary services from the hypothetical facility, nor shall it consider variable operating costs necessary for generating energy.

- 17.2.6 WPP shall review the CONE estimate annually for a possible update. Any proposed changes in the CONE estimate shall be subject to review through the stakeholder process for program rule changes.

- 17.2.7 The Summer Season Annual CONE Factor shall vary based on the ratio ("Summer % Deficit") of the Aggregate Capacity Deficiency for the WRAP as a whole for that Summer Season, divided by the P50 Peak Load Forecast for the Summer Season, as follows:

If the Summer % Deficit is less than or equal to 1%, the Summer Season Annual CONE Factor = 125%

If the Summer % Deficit is greater than 1% but less than or equal to 2%, the Summer Season Annual CONE Factor = 150%

If the Summer % Deficit is greater than 2% but less than or equal to 3%, the Summer Season Annual CONE Factor = 175%

If the Summer % Deficit is greater than 3%, the Summer Season Annual CONE Factor = 200%

17.2.8 The Winter Season Annual CONE Factor shall vary based on the ratio (“Winter % Deficit”) of the Aggregate Capacity Deficiency for the WRAP as a whole for that Winter Season, divided by the P50 Peak Load Forecast for the Winter Season, as follows:

If the Winter % Deficit is less than or equal to 1%, the Winter Season Annual CONE Factor = 125%

If the Winter % Deficit is greater than 1% but less than or equal to 2%, the Winter Season Annual CONE Factor = 150%

If the Winter % Deficit is greater than 2% but less than or equal to 3%, the Winter Season Annual CONE Factor = 175%

If the Winter % Deficit is greater than 3%, the Winter Season Annual CONE Factor = 200%

17.2.9 Notwithstanding Sections 17.2.7 and 17.2.8, if a *Participant incurred any FS Deficiency Charges* in a Forward Showing Year *after the Transition Period*, then for the immediately following Forward Showing Year, both the Summer Season Annual CONE Factor and the Winter Season Annual CONE Factor shall be 200% *for such Participant*.

17.2.10. Subject to the Transition Period rules in Section 15A.1, revenues from the payment of Deficiency Charges as to a Binding Season shall be allocated among those Participants with no Deficiency Charges for that Binding Season, pro rata based on each Participant’s share of all such Participants’ Median Monthly P50 Peak Loads for such Binding Season.

17.3 During the Transition Period, Deficiency Charges otherwise calculated under Section 17.2 shall be reduced as, when, and to the extent, and subject to the conditions, provided in Section 17.3.2; and revenue allocations otherwise calculated under Section 17.2 shall be adjusted as, when, and to the extent, and subject to the conditions, provided in Section 17.3.4.

17.3.1. During the Transition Period, a Participant with a Monthly Capacity Deficiency can pay a *Discounted* Deficiency Charge for so much of such Monthly Capacity Deficiency as was due to an Excused Transition Deficit. To obtain an Excused Transition Deficit for a Binding Season, the Participant must provide a Senior Official Attestation attesting that the Participant *or a relevant third party servicing load for which the Participant is the LRE* has made commercially reasonable efforts to secure Qualifying Resources in the quantity needed to satisfy the Participant’s FS Capacity Requirement for the Binding Season, but is unable to obtain Qualifying Resources in the quantity required for the Binding Season because the supply of such resources on a timely basis and on commercially reasonable

terms is at that time inadequate. *If the attestation relates to a third-party servicing load for which the Participant is the LRE, the Senior Official Attestation may be signed by a Senior Official of the third party load service provider, as further detailed in the Business Practices.* Excused Transition Deficits are not resource specific, relate to a MW quantity of the Participant's FS Capacity Requirement, and are limited for each Participant as to a Binding Season during the Transition Period to a maximum permissible MW quantity equal to a percentage value times the FSPRM applicable to such Participant for all Forward Showing Submittals submitted by such Participant for such Binding Season. For purposes of such calculation, the percentage value is: *200% for each of the 2027 Summer Season and 2027-2028 Winter Season; and 100% for each of the 2028 Summer Season and 2028-2029 Winter Season.*

- 17.3.2 A Participant will pay a *Discounted* Deficiency Charge as to the portion of its Monthly Capacity Deficiency for which it obtained an Excused Transition Deficit. The FS Deficiency Charge otherwise applicable to such Participant under Section 17.2 shall be reduced by a percentage value equal to 75% for each of the 2027 Summer Season and 2027-2028 Winter Season; *and 50% for each of the 2028 Summer Season and 2028-2029 Winter Season.* The Participant will be assessed an FS Deficiency Charge calculated under Section 17.2, without reduction or adjustment, for any of its Monthly Capacity Deficiency that is in excess of the amount of such deficiency for which it obtained an Excused Transition Deficit.
- 17.3.3 Whether or not a Participant obtains an Excused Transition Deficit as to a Binding Season, the Participant may reduce a Monthly Capacity Deficiency otherwise calculated under Section 17.1 for a Binding Season during the Transition Period to the extent such deficiency is due to the Participant's inability to obtain assent from the supplier under a Legacy Agreement to the accreditation required for such Legacy Agreement under Part II of this Tariff and the Business Practice Manuals. To obtain such relief, the Participant must provide a Senior Official Attestation attesting that the Participant made commercially reasonable efforts to execute the required accreditation form with the supplier under the Legacy Agreement, but the supplier was unable or unwilling to counter sign the accreditation form. The reduction in Monthly Capacity Deficiency permitted by this Section 17.3.3 as to any Participant for all Forward Showing Submittals submitted by such Participant for any Binding Season during the Transition Period shall not exceed a MW quantity equal to 25% times the FSPRM applicable for such Participant for such Binding Season. To the extent a Participant reduces a Monthly Capacity Deficiency under this subsection, the percentage of the Participant's FSPRM corresponding to the reduction hereunder shall reduce the maximum permissible percentage of FSPRM reduction allowed under Section 17.3.1 for Excused Transition Deficits for the same Binding Season.

17.3.4 A Participant that, as a result of application of this Section 17.3, pays no Deficiency Charge as to a Binding Season, shall not be deemed a “Participant[] with no Deficiency Charges” for purposes of Section 17.2.10, and shall not receive an allocation of revenues from the payment of Deficiency Charges as to such Binding Season.

PART III OPERATIONS PROGRAM

18. Operations Program Overview

- 18.1 The Operations Program facilitates access to collective capacity made available through regional load and resource diversity of all Participants under the terms of this Part III.
- 18.2 The Operations Program evaluates forecasted system conditions across the seven-day period (“Multi-Day-Ahead Assessment”) preceding the Operating Day, commencing at the outset of the assessment period with an initial Sharing Calculation and initial identification of potential Sharing Events for the Operating Day. The assessment is refined as forecasted conditions for the Operating Day are revised and established on the Preschedule Day, a Holdback Requirement for any Sharing Events is then identified. To the extent a Sharing Event continues to be identified for the Operating Day, Holdback Requirements shall be converted into Energy Deployments on the Operating Day.
- 18.3 The Operations Program prescribes pricing designed to incent Participants to resolve any forecast Operating Day deficiencies before the Operating Day, including through transactions outside the Operations Program, and to fully compensate Participants that provide support through the Operations Program to Participants with Operating Day deficiencies.

19. Operations Program Timeline and Supporting Information

- 19.1 The Operations Program includes a Multi-Day Ahead Assessment that looks ahead at the next seven Operating Days by performing an indicative Sharing Calculation from Participant forecast data for each future Operating Day up until the Preschedule Day. The Sharing Calculation for the Preschedule Day is not indicative but is binding, subject to Sections 20.2.4 and 20.3. Participants shall provide WPP with forecasts for the next seven Operating Days of expected (i) load, (ii) output of VERs, (iii) output of RORs, (iv) Contingency Reserves, and (v) forced outages, including outages on transmission facilities the Participant utilized to meet its Forward Showing Capacity Requirement, as further described in the Business Practice Manuals. WPP shall utilize the forecast data obtained in the Multi-Day-Ahead Assessment to calculate or revise the indicative Sharing Calculations for each day thereafter, up until the Preschedule Day, and will use such forecast data to revise the indicative Sharing Calculation hourly during the Operating Day. Such forecast data will also be used to calculate the binding Sharing Calculation for the Preschedule Day.
- 19.2 The Operations Program, during any Binding Season, shall rely on and employ (among other data) the following information from the Forward Showings for such Binding Season: (i) the P50 Peak Load Forecast for each Participant; (ii) the Monthly FSPRMs for each Participant during such Binding Season; (iii) expected performance by Qualifying Resource type and any RA Transfers; (iv) expected forced outage rates by resource type; (v) expected Contingency Reserves; and (vi) firm transmission service rights made available for purposes of regional diversity sharing under the WRAP, permitted under Part II of this Tariff, which shall be assumed to be available for all hours of each Month for which such firm transmission service rights were made available.
- 19.3 To facilitate WPP's conduct of the Multi-Day-Ahead Assessment, each Participant shall provide the Program Operator information relevant to the Participant's expected demand and supply conditions on each Operating Day, of the type, in the manner, and with the frequency, specified in the Business Practice Manuals.
- 19.4 Each Participant in any Subregion identified in the Business Practice Manuals as not containing a central transmission hub permitting energy deliveries to that hub from any point within such Subregion, shall, in addition to providing the information required by Section 19.3, identify, on or before the deadline during the Preschedule Day specified in the Business Practice Manuals, for each Hour of the Operating Day each point to which it can deliver energy, each point at which it can take receipt of energy, the quantity it can deliver or receive at each such point, and a numeric factor intended to prioritize use of transmission made available by Participants with positive Sharing Calculations and needed by Participants with negative Sharing Calculations for each such hour. A Participant with a positive Sharing Calculation for an hour must provide a total quantity for all identified points at which it can deliver that is no less than the amount of its positive Sharing Calculation for such hour (adjusted as necessary for any RA Transfer in accordance

with Section 20.1.2). A Participant with a negative Sharing Calculation for an hour must provide a total quantity for all identified points at which it can take receipt that is no less than the amount of its negative Sharing Calculation for such hour (adjusted as necessary for any RA Transfer in accordance with Section 20.1.2). Participants shall provide this same information for each Operating Day on an expected or preliminary basis on each day of the Multi-Day-Ahead Assessment following, and based on, the expected Holdback Requirement estimates provided on each such day for the Operating Day.

- 19.5 Any Participant with excess supply that is not obligated to the WRAP through a positive Sharing Calculation result may, at its sole election, offer such supply to the WRAP as Voluntary Holdback. If the offering Participant has a positive Sharing Calculation result, the offered capacity shall be in addition to that Sharing Calculation result; if the offering Participant has a negative Sharing Calculation result, the offered capacity will only be included in the allocation of Holdback Requirement so long as the offering Participant did not confirm a need for Holdback Capacity for such hour. Such offers must be submitted within the time window identified in the Business Practice Manuals, must include the information identified in Sections 19.3 and 19.4, as applicable, and must conform to the format and content identified in the Business Practice Manuals. An offer of Voluntary Holdback may become part of the Participant's Holdback Requirement when it is included in the allocation on the Preschedule Day prescribed by Section 20.2.

20. Components of the Operations Program

20.1 Sharing Calculation

20.1.1 WPP shall implement, as more fully described in the Business Practice Manuals, with respect to each Forward Showing Submittal accepted by WPP for a Participant under Part II of this Tariff, or with respect to each Subregion in which the Participant is responsible for load regardless of whether the Participant submitted a single Forward Showing Submittal encompassing its loads in both Subregions, the following Sharing Calculation to identify any hour in which any Participant is forecast to have a capacity deficit (known as a “Sharing Event”). This calculation takes into account changes in a Participant’s resource availability, resource performance, forecast load, and Contingency Reserve relative to the Forward Showing, plus an Uncertainty Factor. The Sharing Calculation is equal to:

$$[(P50) * (1 + FSPRM) + \text{Contingency Reserve Adjustment}] - [\text{Load Forecast} - \text{Demand Response Capacity Resources} + \text{Contingency Reserve Obligation} + \text{Uncertainty Factor}] + [\Delta \text{Forced Outages} + \Delta \text{RoR Performance} + \Delta \text{VER Performance}]$$

Where:

P50 refers to the Participant’s Monthly P50 Peak Load for that Binding Season’s Month;

FSPRM, as described in Section 16.1.2, is an increment of resource adequacy supply needed to meet conditions of high demand in excess of the applicable peak load forecast and other conditions such as higher resource outages and is expressed as a percentage of the applicable Participant P50 Peak Load Forecast for that Binding Season’s month;

Contingency Reserve Adjustment accounts for changes in Contingency Reserve expectations (relative to the 6% Contingency Reserve assumed in the FSPRM) resulting from energy contract purchases and contract sales as set forth in the Business Practice Manuals;

Load Forecast refers to the forecast of expected load for the subject hour for the loads for which the Participant is the Load Responsible Entity and that have not been excluded from WRAP participation;

Demand Response Capacity Resource as described in Section 16.2.5.4.

Contingency Reserve Obligation refers to the amount of Contingency Reserve 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

its Contingency Reserve, (ii) plus 3% of WRAP load for which the Participant is not the LRE but has assumed the 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 the Contingency Reserve, (iv) plus 3% of generation utilized to meet WRAP Load for which the Participant is not the LRE but has assumed the Contingency Reserve through a contractual arrangement;

Uncertainty Factor refers to a factor determined by WPP, as more fully set forth in the Business Practice Manuals, to account for the potential variance between forecasts of load, solar resources, wind resources, and run-of-river resources, and the Operating Day conditions of such load and resources;

Δ Forced Outages refers, for the subject hour, to the sum of:

- (i) any change in forced outages of any of the thermal resources included in the Participant's Portfolio QCC, relative to the forced outages assumed in the Forward Showing Submittal by application of the Forced Outage Factor; plus
- (ii) any change in forced outages of any of the Storage Hydro Qualifying Resources relative to the forced outages assumed in the calculation of the Participant's Resource QCC as more fully described in the Business Practice Manuals; plus
- (iii) any reduction in output capability of any of the Energy Storage Resources due to equipment failure or protection
 - a. In the first four (4) hours the Forced Outages MWs that can be claimed are equal to $[(\text{charge MW} \times \text{duration})/4]$
 - b. For all hours beyond four (4) hours, the Forced Outages MW amount that can be claimed for an Energy Storage Resource shall not be greater than the monthly QCC; plus
- (iv) any impacts of transmission conditions on previously acquired firm transmission service rights that result in capacity reductions up to the level of the Resource QCC of the associated Qualifying Resource;

Δ RoR Performance refers to any change, for the subject hour, in expected performance of any of the run-of-river resources in the Participant's Portfolio QCC relative to the QCC of those Qualifying Resources; and

Δ VER Performance refers to any change, for the subject hour, in expected performance of the VER Resources in the Participant's Portfolio QCC relative to the QCC of those Qualifying Resources;

- 20.1.2 In addition to the foregoing, the Sharing Calculation for a Participant that is a purchaser of an RA Transfer shall be performed in two passes, with and without such purchase. If the result of assuming in the first pass that the Participant had not purchased the RA Transfer is that the Participant has a

negative Sharing Calculation, then the Participant that sold the RA Transfer must agree, for the time period addressed by the Sharing Calculation, to an energy delivery to the Participant that purchased the RA Transfer, in an amount equal to the lesser of: (i) the MW quantity needed to result in a net zero Sharing Calculation for the Participant that purchased the RA Transfer; and (ii) the MW amount of the RA Transfer. If the result of recognizing the Participant's purchase of the RA Transfer in the second pass is that the Participant has a positive Sharing Calculation, then the Participant that sold the RA Transfer must assume a share of the purchasing Participant's resulting obligation to the Operations Program in an amount equal to the MW quantity of the RA Transfer, minus the MW quantity of the delivery made by the seller of the RA Transfer to the purchaser of the RA Transfer as a result of the first pass.

20.1.3 The Sharing Calculation of any Participant that was found to have a Monthly Capacity Deficiency under Sections 16.1 and 16.2, for which such Participant paid a Deficiency Charge, including any Deficiency Charge reduced by application of Section 17.3 during the Transition Period, shall be reduced by the MW quantity of such Monthly Deficiency.

20.2 Holdback Requirement

To the extent that: (i) WPP's application of the Sharing Calculation identifies on the Preschedule Day a Sharing Event for any hour(s) of the Operating Day; and (ii) the Participant(s) found to be deficient for such hour(s) by the Sharing Calculation confirms to WPP on the Preschedule Day, in accordance with notification and confirmation procedures set forth in the Business Practice Manuals, such Participant's need for capacity for such hour(s), then WPP shall determine the Participants having a Holdback Requirement for such hour(s) and the quantity of the Holdback Requirement for each such Participant in accordance with this Section 20.2. The Operations Program will prioritize offers of Voluntary Holdback in the allocation and assignment of Holdback Requirements. Holdback Requirements shall be expressed as whole MWs for each hour for which they are estimated or established and shall not be specific to any Qualifying Resource.

20.2.1 Subregion with Central Hub

For any hour, as to any Subregion identified in the Business Practice Manuals as containing a central transmission hub permitting energy deliveries to that hub from any point within such Subregion ("Central Hub"), the aggregate of the holdback needed to meet the requirements of all Participants with negative Sharing calculation results that have confirmed their need for holdback will be allocated and assigned first among offers of Voluntary Holdback, and second, to the extent such needs remain unmet, among Participants with positive Sharing Calculation results.

20.2.1.1 Allocation of Voluntary Holdback: Voluntary Holdback will be allocated in one of three alternative ways, based on comparing the aggregate confirmed need for holdback among Participants with negative Sharing Calculation results against the aggregate of all offers for Voluntary Holdback.

20.2.1.1.1 If the total MW quantity of all Voluntary Holdback offered is equal to the total MW quantity of all deficient Participants' confirmed requests for holdback, then each Participant that offered Voluntary Holdback is assigned its offered Voluntary Holdback as its Holdback Requirement.

20.2.1.1.2 If the total MW quantity of all Voluntary Holdback offered is more than the total MW quantity of all deficient Participants' confirmed requests for holdback, then each Participant that offered Voluntary Holdback is assigned as its Holdback Requirement a percentage of the total confirmed need for holdback based on the ratio of the Participant's MWs of offered Voluntary Holdback to the sum of all Participants' MWs of offered Voluntary Holdback.

20.2.1.1.3 If the total MW quantity of all Voluntary Holdback offered is less than the total MW quantity of all deficient Participants' confirmed requests for holdback, then each Participant's Holdback Requirement is determined as set forth in section 20.2.1.2.

20.2.1.2 Allocation of Remaining Holdback Requirement: Sharing Calculation Results

If the total MW quantity of all Voluntary Holdback offered is less than the total MW quantity of all deficient Participants' confirmed requests for holdback, then the maximum Voluntary Holdback offered is used as the first term in the Holdback Requirement. The remaining term of the Holdback Requirement is met by application of the Sharing Calculation, and the results of the two terms are summed for each Participant. The remaining need for holdback that is not met by Voluntary Holdback is allocated among all Participants with positive Sharing Calculation results pro rata based on the ratio for each Participant of the Participant's positive Sharing Calculation result to the sum of the positive Sharing Calculation results. The

sum of these two values for each applicable Participant is the Holdback Requirement for that Participant.

20.2.2 Subregion without Central Hub

For any hour, any Subregion not containing a Central Hub, the Program Operator shall conduct an optimization-based allocation to pair surplus and deficient Participants. The allocation methodology will utilize the points at which surplus Participants can deliver their Holdback Requirement, the points at which deficient Participants can take receipt of their allocation of the total Holdback Capacity, and the transfer capability that exists to the points at which surplus Participants can deliver and the points at which deficient Participants can take receipt.

The optimization will generally attempt to prioritize (i) Voluntary Holdback; (ii) Holdback Capacity matched pursuant to the information provided per Section 19.4 on a nearest neighbor and cluster basis, allocated pro rata among Participants within such cluster; (iii) Holdback Capacity matched pursuant to the information provided and allocated among Participants within the same Subregion to the extent not matched and allocated under category (ii); and finally (iv) Holdback Capacity from Participants in another Subregion, paired with any transmission service per Section 14.3.2.

20.2.3 Absent a Holdback Requirement Transfer as described below, a Participant's Holdback Requirement for any hour of an Operating Day shall not exceed the level first set by WPP on the Preschedule Day for that Participant for that hour.

20.2.4 Any Participant may agree with any other Participant for the first Participant to transfer to the second Participant some or all of the Holdback Requirement established for the first Participant for any hour on any Operating Day. Any such Holdback Requirement Transfer shall be a bilateral arrangement settled outside the Operations Program, provided, however, that both Participants must timely notify WPP, by the time and in the manner described in the Business Practice Manuals, of such Holdback Requirement Transfer. Any necessary transmission arrangements and any transaction settlements shall be the sole responsibility of the Participants that are the parties to such bilateral arrangement.

20.2.4.1 No Holdback Requirement transfer for any hour shall be permitted if notice of such bilateral transaction is not fully reported to WPP, in the form required by the Business Practice Manuals, by 120 minutes before the start of such hour.

20.3 Release of Surplus Capacity

- 20.3.1 As detailed in the Business Practice Manuals, WPP will review the indicative Sharing Calculation results from the Multi-Day Ahead Assessment and to the extent the WPP determines any indicative Sharing Calculations can be reduced, it may release all or a portion of Participants' future Holdback Requirements. WPP may permit a release of future Holdback Requirements to the extent WPP has not applied a Safety Margin for such hour and (i) WPP's continued Sharing Calculations determine that no Participant has a negative indicative Sharing Calculation result for such hour; and (ii) WPP determines there is a low probability of a Sharing Event for the hour; or (iii) WPP grants a Participant's request for extenuating circumstances of all or any portion of that Participant's future Holdback Requirement for the hour.
- 20.3.2 Upon release of all or any portion of a future Holdback Requirement, the quantity of future Holdback Requirement so released shall no longer be subject to an Energy Deployment requirement under the Operations Program for the subject hour.

20.4 Energy Deployment

- 20.4.1 Participants shall provide energy during an hour, in support of any Participants with a negative Sharing Calculation result and a confirmed need for energy under the Operations Program for such hour, in accordance with WPP's calculation of the Energy Deployment for such hour. The total Energy Deployment required of all Participants that are subject to Energy Deployment shall equal the sum, in MWh for that hour, of the energy confirmed as being needed in that hour by Participants in such Subregion with negative Sharing Calculation results in such hour, to the extent that can be supported by the Program. The Energy Deployment assigned to each Participant shall not exceed that Participant's Holdback Requirement calculated on the Preschedule Day, adjusted for any applicable transfer of Holdback Requirement as allocated and assigned for the Preschedule Day, and, as further adjusted to reflect the election, made after the Preschedule Day, of any Participant with a negative Sharing Calculation result on the Preschedule Day to decline all or any part of the Holdback Capacity to which it would have been entitled based on the Holdback Requirements determined on the Preschedule Day.
- 20.4.1.1 In Subregions with a Central Hub, Energy Deployments required hereunder shall be delivered to the Central Hub in such Subregion, or to an alternate delivery point mutually agreed by the parties to a specific Energy Deployment, provided both parties to the transaction report such alternative delivery arrangements to WPP in the form and manner described in the Business Practice Manuals.

20.4.1.2 In Subregions without a Central Hub, Energy Deployments required hereunder shall be delivered to the receipt point and delivery point as indicated by the optimization allocation, or to an alternate delivery point mutually agreed by the parties to a specific Energy Deployment, provided both parties to the transaction report such alternative delivery arrangements to WPP in the form and manner described in the Business Practice Manuals.

20.4.2 The Energy Deployment a Participant may receive for any hour shall be no greater than the negative Sharing Calculation result calculated for such Participant for such hour. Such Participant shall confirm, by no later than 85 minutes before the start of such hour, the quantity of Energy Deployment for which it requires delivery for such hour, through the procedures outlined in the Business Practice Manuals. Any Participant that does not confirm required Energy Deployment deliveries for such hour by such deadline will be deemed to waive all deliveries of Energy Deployment under the Operations Program for such hour.

20.4.3 The Energy Deployment a Participant can be required to supply for an hour shall not exceed the final Holdback Requirement calculated for such Participant on Preschedule Day, including any duly reported exchange of Holdback Requirement, as of 85 minutes before the start of such hour.

20.4.4 WPP shall advise each Participant with a required Energy Deployment for an hour of the required MWh quantity and delivery point of such Energy Deployment by no later than 80 minutes before the start of such hour.

20.5 Safety Margin

20.5.1 WPP may establish on the Preschedule Day a Safety Margin for the WRAP Region or any identified Subregion thereof for any hour of an Operating Day when warranted by such circumstances as potential large resource trips, heavy transmission outage conditions, significant environmental conditions, or other similar regional or subregional conditions, as more fully set forth in the Business Practice Manuals.

20.5.2 Any Safety Margin so determined for an hour shall be allocated pro rata among Participants with a positive Sharing Calculation result, based on their relative shares of the sum of all positive Sharing Calculation results for such hour, provided, however, that the Safety Margin allocated to a Participant may not result in a Holdback Requirement for such Participant greater than such Participant's Sharing Calculation result. A Participant allocated holdback for a Safety Margin hereunder does not receive compensation under this Tariff for such allocation of holdback.

20.5.3 WPP shall notify all Participants of application of a Safety Margin for any hour, including in such notice the total timeframe, the MW amount, and the rationale for such Safety Margin.

20.6 Operations Program Transmission Service Requirements

Participant shall have in place, prior to the Operating Day, transmission service satisfying NERC Priority 6 or 7 for each hour of such Operating Day for which a Sharing Event has been established, in a quantity sufficient for deliveries from the Qualifying Resources relied upon in such Participant's Forward Showing Submittal to demonstrate satisfaction of such Participant's FS Capacity Requirement (or from replacement Qualifying Resources) to serve such Participant's loads during such hours. In the event a Participant has an Energy Delivery Failure, the review associated with the possible assessment of a Delivery Failure Charge on such Participant shall, as further described in the Business Practice Manuals, include whether a failure to secure sufficient NERC Priority 6 or Priority 7 firm transmission service rights caused or contributed to such Energy Delivery Failure. For such purpose, the Participant will have been expected to have complied with the transmission service requirement stated in this subsection.

20.7 Failure to Deliver Energy Deployments

20.7.1 A Participant assigned a required Energy Deployment pursuant to Section 20.4.4 of this Tariff for any hour that fails to deliver the specified energy during such hour, and that does not obtain a waiver of its Energy Deployment obligation, shall be assessed a Delivery Failure Charge.

20.7.2 A Participant shall be deemed to have an Energy Delivery Failure if Participant fails to deliver the Energy Deployment quantity established under Section 20.4.1, absent grant of a waiver pursuant to Section 20.7.3 of this Tariff.

20.7.3 A Participant anticipating an Energy Delivery Failure should provide WPP notice of such expected Energy Delivery Failure as soon as practicable after becoming aware of the anticipated failure. Whether anticipated or not, a Participant may request a waiver of an Energy Deployment obligation after an Energy Delivery Failure has occurred. The WPP shall review all such waiver requests and shall determine whether the Participant's justification for the Energy Delivery Failure is valid and warrants waiver of its Energy Deployment obligation. The WPP also shall consider whether the Participant knew in advance, or reasonably should have known in advance, of an Energy Delivery Failure, and what efforts the Participant took to notify the WPP in advance of such Energy Delivery Failure. The procedures for addressing such waiver requests, including a non-exclusive list of valid justifications for an Energy Delivery Failure shall be set forth in the Business Practice Manuals. A Participant denied a waiver request hereunder may appeal such denial to the Board of Directors in accordance

with the procedures and deadlines set forth in the Business Practice Manuals. In such event, the requested waiver shall be denied or permitted as, when and to the extent permitted by the Board, in accordance with the procedures and timing set forth in the Business Practice Manuals. WPP shall report on the disposition of each waiver request received.

20.7.4 The Delivery Failure Charge for each hour shall be the Charge Rate applicable for such hour times the MWhs of energy that were required to be, but were not, delivered pursuant to an Energy Deployment during such hour. The Charge Rate shall be the higher of the Day-Ahead price or Real-Time price provided by the Day-Ahead Applicable Price Index and Real-Time Applicable Price Index as specified in the Business Practice Manuals for the Subregion applicable to the location of the delivering entity, applicable to the day and hour of the energy delivery, respectively, for the hour, times a Delivery Failure Factor, as follows:

20.7.4.1 If the deficit is fully covered by other Participants through the Operations Program, in each instance of failure, the Delivery Failure Factor shall be five for the first non-waived Energy Delivery Failure in a Cumulative Delivery Failure Period; ten for the second non-waived Energy Delivery Failure in a Cumulative Delivery Failure Period; and twenty for the third and subsequent non-waived Energy Delivery Failures in a Cumulative Delivery Failure Period. For purposes of applying the Delivery Failure Factors under this Section 20.7.4 or the review referenced in Section 20.7.5, multiple Energy Delivery Failures occurring in one day shall be treated as a single instance of failure.

20.7.4.2 If the deficit is not fully covered by other Participants through the Operations Program, the Delivery Failure Factor is twenty-five for the first non-waived Energy Delivery Failure in a Cumulative Delivery Failure Period; and fifty for the second and subsequent non-waived Energy Delivery Failures (regardless of whether the prior instance(s) of delivery failure were fully covered by other Participants) in a Cumulative Delivery Failure Period.

20.7.4.3 Revenues from Delivery Failure Charges assessed in cases where the deficit was fully satisfied by other Participants will be used to reduce WPP costs that are recovered under Schedule 1, WRAP Administration Charge. Revenues from Delivery Failure Charges assessed in cases where the deficit was not fully met by other Participants will be collected by the WPP and provided to the Participant that had an unserved deficit.

20.7.4.4 Notwithstanding anything to the contrary in this Section 20.7.4, the Delivery Failure Charges assessed on a Participant, regardless of application of the Delivery Failure Factor, shall not

exceed, over the course of a Summer Season and the immediately succeeding Winter Season, the dollar amount that, as more fully detailed in the Business Practice Manuals, would have been assessed cumulatively under Section 17 as Deficiency Charges if the Participant had one or more Forward Showing Capacity Deficiencies over the course of such Summer Season and Winter Season in the same MW amounts as the highest MW amount of Delivery Failure experienced by such Participant in each Month of such Summer Season and Winter Season. The maximum dollar amount described herein shall be calculated on an ongoing basis during such Summer Season and Winter Season, and increased or reduced accordingly, without awaiting the end of the combined period of such Summer Season and Winter Season.

20.7.5 In addition to assessment of the Delivery Failure Charge, a third or subsequent instance of non-waived delivery failure, when all such delivery failures are fully covered by other Participants, or a second or subsequent instance of non-waived delivery failure when such instance is not fully covered by other Participants, will subject the Participant to review for expulsion from the WRAP.

20.8 Voluntary Response to Increased Deficiencies Identified After Preschedule Day

20.8.1 A Participant that identifies an unmet need for energy for any hour of an Operating Day that is outside of assistance provided or to be provided by Holdback Requirements or Energy Deployments established hereunder may, in accordance with procedures specified in the Business Practice Manuals, notify WPP of the need for such assistance. WPP will establish a portal or other procedure, as specified in the Business Practice Manuals, to facilitate provision of assistance, on a voluntary, bilateral basis, by other Participants to the Participant that identified the unmet need. Compensation, terms, and conditions of any resulting bilateral transactions will be determined by the affected parties outside of this Tariff. While Participant response to any such notification is voluntary, Participants are encouraged to provide assistance to other Participants in the circumstances described in this subsection, in consideration of the mutual support each Participant has agreed to provide to each other Participant by its agreement to participate in the WRAP, including this Operations Program.

21. Operations Program Settlements

21.1 Nature of Operation Program Settlements

21.1.1 Operations Program settlements are bilateral transactions; they are not purchases from or sales to a central market.

21.1.2 Operations Program transactions use existing transaction systems and processes.

21.1.3 The WPP will calculate and post settlement quantities and prices based on the Energy Deployment and Holdback Requirement, in accordance with procedures specified in the Business Practice Manuals for provision of transaction information by and among Participants and WPP, but WPP has no role in the transaction itself. WPP is not a settlement entity.

21.1.4 Settlement Prices calculated under Section 21.2 shall recognize pricing differences among Subregions. Where the seller and buyer are located in the same Subregion, the Applicable Price Index shall be the price index specified for that Subregion in the Business Practice Manuals. Where the seller and buyer are located in different Subregions, the following components of the settlement price calculation in Section 21.2 will be calculated using the Applicable Price Index for the Subregion that provides the higher index price: (i) Possible Block Sale Revenue; (ii) Total Settlement Price; (iii) Energy Declined Settlement Price; and (iv) Realtime Value of Unheld Energy. If a third participant is involved by providing transmission service rights between Subregions, the Participant that provided holdback or Energy Deployment shall receive the settlement price of the Subregion from which the holdback or Energy Deployment was sourced, and the Participant that provided Subregion to Subregion transmission service rights pursuant to Section 19.4 shall receive the difference between each Subregion's Total Settlement Price, or zero, whichever is greater.

21.2 Settlement Price Calculation. Settlement prices shall be calculated in accordance with the following, as more fully set forth in the Business Practice Manuals.

21.2.1 A Participant assigned a Holdback Requirement on a Preschedule Day for any hour of an Operating Day shall be paid the Holdback Settlement Price times the MW quantity of the Holdback Requirement. A Participant that provides energy to another Participant pursuant to an Energy Deployment shall be paid the Energy Declined Settlement Price, defined in Section 21.2.4, times the MWhs of energy provided to such other Participant, and its total payments shall be reduced by the Energy Declined Settlement Price times the MWhs of energy that would have been provided under a Holdback Requirement but were declined by the other Participant. A Participant

assigned a Holdback Requirement also shall be paid, when applicable, a Make Whole Adjustment, as provided below in Section 21.2.5.

- 21.2.2 A Participant that had a negative Sharing Calculation result for any hour of an Operating Day, which was incorporated in the calculation of Holdback Requirements of any Participants for such hour, determined as of the Preschedule Day, shall pay the Holdback Settlement Price times the MW quantity of such negative Sharing Calculation result. In addition, any Participant that had a negative Sharing Calculation result that was incorporated in the calculation of a Holdback Requirement shall contribute to the payment of the Make Whole Adjustment based on its negative Sharing Calculation. A Participant that declines energy that would have been provided under a Holdback Requirement shall be credited the Energy Declined Settlement Price times the MWhs of energy declined by such Participant.
- 21.2.3 The Holdback Settlement Price shall equal the Total Settlement Price minus the Energy Declined Settlement Price.
- 21.2.4 The Energy Declined Settlement Price shall equal the Applicable Real-Time Index Price for the hour.
- 21.2.5 The Make Whole Adjustment is applied in the event that the settlement revenue and the estimated value of the non-dispatched energy is less than the estimated revenues the selling entity would have received had such entity not been subject to a Holdback Requirement and had sold a day-ahead block of energy with a MW value equal to the maximum amount of Holdback Requirement for the hours in the block. The Make Whole Adjustment has a minimum value of zero and is determined as follows:

$$\begin{aligned} \text{Make Whole Adjustment (when applicable)} = & \\ & \text{Maximum of (Possible Block Sale Revenue} \\ & \text{– Final Settlement Revenue} \\ & \text{– Realtime Value of Declined Energy} \\ & \text{– Realtime Value of Unheld Energy, 0)} \end{aligned}$$

Where:

$$\text{Realtime Value of Declined Energy} = \text{Energy Declined} \times \text{Energy Declined Settlement price}$$

provided that Declined Energy is only applicable to those hours where there was a positive Holdback Requirement.

$$\begin{aligned} \text{Realtime Value of Unheld Energy} = & (\text{Maximum Holdback MW in Block} \\ & \text{– Holdback MW Requested}) \times \text{Applicable Index Price} \end{aligned}$$

21.2.6 The Total Settlement Price used in the above calculations shall be determined in accordance with the following formula:

Total Settlement Price = Maximum of (Minimum of (Hourly Shaping Factor × Day Ahead Applicable Index Price × 110%, 2000 \$/MWh), 0)

where:

Hourly Shaping Factor is based on the most recent High-Priced Day for the relevant season, defined as a day in which at least one hour has a system marginal energy cost (“SMEC”) greater than \$200/MWh, and shall be calculated as follows:

$1 + \{[\text{CAISO Hourly Day Ahead SMEC} - \text{CAISO Average Day Ahead SMEC (on- or off-peak hours)}] / [\text{CAISO Average Day Ahead SMEC (on- or off-peak hours)}]\}$

Day-Ahead Applicable Index Price is the day-ahead heavy load/light load ICE Index price that is specified in the Business Practice Manuals for the Subregion applicable to the location of the delivering entity, applicable to the day and hour of the energy delivery. If transmission via Section 14.3.2 was used to facilitate holdback, the Applicable Index Price shall be the higher of the two subregional day-ahead index prices for that portion of the holdback.

Real-Time Applicable Index Price is the real-time index price that is specified in the Business Practice Manuals for the Subregion applicable to the location of the delivering entity, applicable to the day and hour of the energy delivery.

SCHEDULE 1

WESTERN RESOURCE ADEQUACY PROGRAM ADMINISTRATIVE COST RECOVERY CHARGE

The Western Power Pool's Costs of administering and operating the Western Resource Adequacy Program including, without limitation, all costs incurred or obligated by WPP as Program Administrator, all costs paid or payable by WPP to the Program Operator or other service providers, all costs of the Board of Directors in directing, supervising, or overseeing the WRAP, and the costs of maintaining a reasonable reserve as provided in Section 1 of this Schedule 1, shall be recovered from Participants pursuant to the charges set forth in this Schedule 1.

Section 1. WRAP Costs

1. As used herein, Costs shall mean WPP's costs, expenses, disbursements and other amounts incurred (whether paid or accrued) or obligated of administering and operating the WRAP as described above, including, without limitation, operating expenses, general and administrative expenses, costs of outside services, taxes, fees, capital costs, depreciation expense, interest expense, working capital expense, any costs of funds or other financing costs, and the costs of a reasonable reserve as provided herein.
2. The Costs included in a WRAP Administration Charge assessed for a Month shall be the Costs determined as being incurred for that Month, including, without limitation, for each Month, one-twelfth of any annual charge(s).
3. The Costs included in the WRAP Administration Charge for a reasonable reserve shall be those designed to establish over the first twelve months that this WRAP Administration charge is in effect an amount equal to 6% of the expected Costs, exclusive of such reserve, for one year; and to maintain such reserve thereafter at an amount equal to 6% of the expected Costs, exclusive of such reserve for the then-current year. WPP shall record on its income statement deferred regulatory expense, and WPP's balance sheet will reflect as a cumulative deferred regulatory liability, revenues collected under this Schedule 1 that are in excess of the Costs exclusive of such reserve and taking account of and including any accrued tax expense effects of this regulatory liability. The deferred regulatory liability will be reduced when after-tax WPP revenues collected under this Schedule 1 during any Month are less than the Costs exclusive of such reserve. Within thirty days after the end of each Year, to the extent WPP determines that the deferred regulatory liability exceeds 6% of WPP's revenues that were collected under this Schedule 1 during such Year, such excess amounts in the deferred regulatory liability shall be refunded evenly over the applicable billing determinant volumes in the remainder of the subsequent Year through credits to charges to then-current customers under this Schedule 1.

Section 2. WRAP Administration Charge

Each Participant shall be assessed each Month a WRAP Administration Charge equal to the sum of the Base Charge and the Load Charge,

where:

The Base Charge for each Participant equals the Base Costs divided by the number of Participants being assessed the Base Charge for the Month for which the WRAP Administration Charge is being calculated;

The Load Charge for each Participant equals the Load Charge Rate of the Load Services Costs divided by the sum of the Median Monthly P50 Peak Loads of the Participants being assessed the Load Charge for the Month for which the WRAP Administration Charge is being calculated, times that Participant's Median Monthly P50 Peak Load;

And where:

Base Costs means the Costs for the Month of the Base Services Cost Centers shown in the WRAP Cost Assignment Matrix, plus the Base Services Percentage times the Costs for that Month of the Dual Benefit Cost Centers shown below in Section 4: WRAP Cost Assignment Matrix;

Load Services Costs means the Costs for the Month of the Load Services Cost Centers shown in the WRAP Cost Assignment Matrix, plus the Load Services Percentage times the Costs for that Month of the Dual Benefit Cost Centers shown in the WRAP Cost Assignment Matrix; and

Median Monthly P50 Peak Loads means, for each Participant, the median of the Monthly P50 Peak Loads used in the FS Capacity Requirement of such Participant for two Binding Seasons corresponding to the two FS Submittal most recently validated by WPP.

If before or during a Binding Season, a Participant has need to update their Monthly P50 Peak Load for allowable reasons, those updated Monthly P50 Peak Loads will be replaced and the Median Monthly P50 Peak Load value recalculated upon validation of the change in participating load.

A Participant joining the Program will supply data such that WPP can validate Monthly P50 Peak Loads for the first two Binding Seasons for which the Participant will submit an FS Submittal for use in calculating Load Services Costs until these FS Submittals are submitted and reviewed in the normal timeframe.

Section 3. Maximum Charge Rates

- 3.1 Notwithstanding anything to the contrary in this Schedule 1, the sum of the Base Charges for all Months in a Year shall not exceed the Annual Maximum Base Charge of \$59,000/Year, and the sum of the Load Charge Rates for all Months in a Year shall not exceed the Annual Maximum Load Charge Rate of \$199/MW. WPP shall, to the extent reasonably practicable, provide two-months' notice prior to WPP's filing at FERC of an application to change the Maximum Base Charge or the Maximum Load Charge Rate, provided that nothing herein shall limit the Board of Director's authority and discretion to seek at FERC a change in the maximum rates in the time and manner the Board determines in the best interests of the Western Resource Adequacy Program. For purposes of clarity, these specified maximum rates on the Base Charge and the Load Charge do not limit the level of the Cash Working Capital Support Charge established under Section 5 of this Schedule 1, nor do they limit the amount of the default Allocation assessment provided under Part I of this Tariff.
- 3.2 To facilitate Participant planning, the WPP shall prepare, and provide to the RAPC, good faith, non-binding estimates of: (i) reasonably anticipated WRAP budgets for three Years beyond the most recently approved WRAP budget, including sensitivity analyses for reasonably identified major contingencies; (ii) reasonably anticipated numbers of Participants and MWs of Winter and Summer P50 Loads for each such Year; and (iii) reasonably anticipated highest monthly Base Charges and Load Charge Rates for each such Year. All assumptions and estimates in such forecasts and analyses shall be in WPP's sole discretion, which may be informed by RAPC discussion of such topics.

Section 4. WRAP Cost Assignment Matrix

	BASE COSTS	LOAD COSTS	DUAL BENEFIT
PROGRAM ADMINISTRATION (NON-PARTICIPANT)	100%		
PROGRAM ADMINISTRATION (PARTICIPANT ENGAGEMENT, RAPC FACILITATION)	100%		
WRAP PORTION OF WPP BOD COSTS	50%/50%		
PROGRAM OPERATIONS STAFFING AND OVERHEAD	100%		
PROGRAM OPERATIONS TECHNOLOGY	100%		

LEGAL SERVICES	100%
INDEPENDENT EVALUATOR	100%

Section 5. Cash Working Capital Support Charge

- 5.1 In addition to the WRAP Administration Charge, each Participant shall be assessed a Cash Working Capital Support Charge, to support WPP's maintenance of sufficient funds on hand to make payments required for the operation and administration of the WRAP on a timely basis. Cash Working Capital Support Charges shall be designed to maintain a Cash Working Capital Fund that, at its maximum level over a twelve-month cycle, equals approximately nine-twelfths of the expected annual payment due from the WPP to the Program Operator for its Program Operator services.
- 5.2 A Participant shall pay a Cash Working Capital Support Charge no later than thirty days after that Participant executes a WRAPA. The Cash Working Capital Support Charge due following WRAPA execution equals the Cash Working Capital Support Charge Rate, calculated as the Cash Working Capital Fund at its required maximum twelve-month cycle level divided by the sum of the Median Monthly P50 Peak Loads of all Participants, times that Participant's Median Monthly P50 Peak Load.
- 5.3 To the extent the Cash Working Capital Fund is adequately funded at the time a new Participant executes a WRAPA, the revenue from such Participant's payment of the Cash Working Capital Support Charge shall be distributed to all Participants that previously have paid a Cash Working Capital Support Charge, pro rata based on the Median Monthly P50 Peak Loads of all Participants that have previously paid such charge.
- 5.4 To the extent, and at such time, WPP determines that an incremental addition to the Cash Working Capital Fund is needed due to such causes as, for example, an expected increase in the annual payment to the Program Operator, each Participant shall be assessed an Incremental Cash Working Capital Support Charge equal to the desired incremental addition, divided by the sum of the Median Monthly P50

Peak Loads of all Participants being assessed the Incremental Cash Working Capital Support Charge for the Month for which the Incremental Cash Working Capital Support Charge is being calculated, times that Participant's Median Monthly P50 Peak Load.

ATTACHMENT A

Western Resource Adequacy Program Agreement

This Western Resource Adequacy Program Agreement (“Agreement”) dated as of _____ (“Effective Date”) is entered into by and between Western Power Pool Corporation (“WPP”) and _____ (“Participant”). WPP and Participant are each sometimes referred to in the Agreement as a “Party” and collectively as the “Parties.”

In consideration of the mutual promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Parties agree as follows:

1. The Parties agree that this agreement shall be governed by the rates, terms, and conditions of the Western Resource Adequacy Program Tariff (“Tariff”) and all such rates, terms, and conditions contained therein are expressly incorporated by reference herein. All capitalized terms that are not otherwise defined herein shall have the meanings ascribed by the Tariff.
2. Participant wishes to participate in the Western Resource Adequacy Program (“WRAP”) administered by WPP under the Tariff.
3. Participant certifies that it satisfies all of the following qualifications:
 - 3.1 Participant is a Load Responsible Entity as that term is defined in the Tariff.
 - 3.2 Participant commits to complying with all applicable terms and conditions of WRAP participation as set forth in the Tariff and Business Practice Manuals adopted thereunder, including all Forward Showing Program and Operations Program requirements.
4. Participant will register all resources and supply contracts and shall disclose any other obligations associated with those resources and supply contracts.
5. Participant represents and warrants that it is authorized by all relevant laws and regulations governing its business to enter into this Agreement and assume all rights and obligations thereunder.
6. It is understood that, in accordance with the Tariff, WPP, as authorized by its independent Board of Directors, may amend the terms and conditions of this Agreement or the Tariff by notifying the Participant in writing and making the appropriate filing with FERC, subject to any limitations on WPP’s authority to amend the Tariff as set forth therein.
7. Participant agrees to pay its share of all costs associated with the WRAP, as calculated pursuant to Schedule 1 of the Tariff. The manner and timing of such payment shall be as specified in Schedule 1 of the Tariff.
8. WPP agrees to provide all services as set forth in the Tariff.

9. Term and termination. This Agreement shall commence upon the Effective Date and shall continue in effect until terminated either by WPP by vote of its Board of Directors or by Participant's withdrawal as set forth herein. WPP and Participant agree that participation in the WRAP is voluntary, subject to the terms and conditions of this Agreement and the Tariff. The date upon which a Participant's withdrawal is effective and its participation in the program terminates is referred to as the "Withdrawal Date."
- 9.1 Normal Withdrawal: In general, Participant may withdraw from this Agreement by providing written notice to WPP no less than twenty-four months prior to commencement of the next binding Forward Showing Program period. Once notice has been properly given, Participant remains in a "Withdrawal Period" until the Withdrawal Date.
 - 9.1.1 During Participant's Withdrawal Period, Participant remains subject to all requirements and obligations imposed by the Tariff and this Agreement, including but not limited to all obligations imposed in the Forward Showing Program and Operations Program and obligation to pay Participant's share of all costs associated with the WRAP.
 - 9.1.2 All financial obligations incurred prior to and during the Withdrawal Period are preserved until satisfied.
 - 9.1.3 During the Withdrawal Period, Participant is not eligible to vote on any actions affecting the WRAP that extend beyond the Withdrawal Period.
- 9.2 Expedited Withdrawal: Participant may withdraw from this agreement with less than the required twenty-four month notice as set forth below. Participant shall negotiate with WPP regarding the timing of the Expedited Withdrawal.
 - 9.2.1 Extenuating Circumstances: The following such events and circumstances shall constitute "extenuating circumstances" justifying a withdrawal on less than twenty-four months. Participant invoking an extenuating circumstance shall negotiate with WPP regarding potential ways to minimize the impact of the expedited withdrawal on all other Participants and WPP. Such extenuating circumstances and any mitigation plan to minimize the impact of the expedited withdrawal must be reviewed and approved by the Board of Directors prior to termination of Participant's WRAP obligations. Regardless of the extenuating circumstance, all financial obligations incurred prior to the Withdrawal Date remain in effect until satisfied.
 - 9.2.1.1 A governmental authority takes an action that substantially impairs Participant's ability to continue to

participate in the WRAP to the same extent as previously; provided, however, that Participant shall be obligated to negotiate with WPP regarding potential ways to address the impact of the regulatory action without requiring a full withdrawal of Participant from the WRAP if possible.

9.2.1.2 Continued participation in the WRAP conflicts with applicable governing statutes or other applicable legal authorities or orders.

9.2.1.3 Participant voted against a RAPC determination and disagreed with a Board of Directors decision to release composite or aggregated data under Section 10.2.1 of the Tariff, provided that such right to expedited withdrawal is exercised promptly after the first time that the Board of Directors determines that the form and format of composite or aggregated data sufficiently protects against the release of confidential or commercially sensitive Participant data. Failure to exercise this right promptly upon the first occurrence of the Board of Directors voting on a specific form and format of composite or aggregated data shall constitute a waiver of the right to expedited withdrawal for any future disclosures of composite or aggregated data in the same or substantially similar form and format.

9.2.1.4 FERC or a court of competent jurisdiction requires the public disclosure of a Participant's confidential or commercially sensitive information, as further described in Section 10.5 of the Tariff; provided however that such right to expedited withdrawal shall be exercised promptly upon the exhaustion of all legal or administrative remedies aimed at preventing the release.

9.2.2 Exit Fee: If the impact of Participant's withdrawal on WRAP operations can be calculated with a high degree of confidence and mitigated by the payment of an "exit fee" to be calculated by WPP, an expedited withdrawal will be permitted. Such exit fee shall include (but not be limited to): (i) any unpaid WRAP fees or charges; (ii) Participant's share of all WRAP administrative costs incurred up to the next Forward Showing Program period; (iii) any costs, expenses, or liabilities incurred by WPP and/or the Program Operator directly resulting from Participant's withdrawal; and (iv) any costs necessary to hold other participants harmless from the voluntary expedited withdrawal. The exit fee may be waived to the extent that it would violate any federal, state, or local statute, regulation, or ordinance or exceed the statutory authority of a federal

agency. The exit fee shall be paid in full prior to the Withdrawal Date.

- 9.2.3 Amendments to Section 3.4 of the Tariff: In the event that amendments to Section 3.4 of the Tariff are approved by the RAPC and Board of Directors, a Participant that voted against such a change may withdraw with less than the required twenty-four month notice, provided that the Participant satisfy all obligations in the Forward Showing Program and Operations Program and satisfy all other financial obligations incurred prior to the date that the amendments to Section 3.4 of the Tariff are made effective by FERC.
 - 9.2.4 Expulsion: The Board of Directors, in its sole discretion, may terminate Participant's participation in the WRAP and may terminate this Agreement with Participant for cause, including but not limited to material violation of any WPP rules or governing documents or nonpayment of obligations. Prior to exercising such right to terminate, the Board of Directors shall provide notice to Participant of the reasons for such contemplated termination and a reasonable opportunity to cure any deficiencies. Such Board of Directors termination shall be after an affirmative vote consistent with the Board of Directors standard voting procedures. Such termination shall not relieve the Participant of any financial obligations incurred prior to the termination date, and WPP may take all legal actions available to recover any financial obligations from Participant.
10. No Waiver of Non-FERC-Jurisdictional Status. If Participant is not subject to the jurisdiction of FERC as a public utility under the Federal Power Act, Participant shall not be required to take any action or participate in any filing or appeal that would confer FERC jurisdiction over Participant that does not otherwise exist. Participant acknowledges that FERC has jurisdiction over the WRAP, including Participant's activities in the WRAP.

[SIGNATURE BLOCKS]



WESTERN
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Western Resource Adequacy Program

104 Determination of Capacity
Critical Hours

Revision History

Manual Number	Version	Description	Revised By	Date
104	0.1	RAPC Glance Version	Maya McNichol	1/17/2024
104	0.2	Public Comment Version	Maya McNichol	1/19/2024
104	0.3	RAPC & PRC Discussion	Maya McNichol	2/9/2024
104	0.4	RAPC Endorsement	Maya McNichol	2/20/2024
104	0.5	Board Approval	Maya McNichol	2/29/2024
104	1.0	Board Approved	Maya McNichol	3/7/2024
104	2.0	Annual BPM Review	Maya McNichol	3/19/2026
<u>104</u>	<u>2.1</u>	<u>2026-EP-05 CCH By Subregion</u>	<u>Maya McNichol</u>	<u>9/4/2026</u>



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104 Determination of Capacity Critical Hours

1. Introduction

The Capacity Critical Hours Business Practice Manual (BPM 104) describes the methodology for identifying the Capacity Critical Hours (CCH) for a given period (the “Capacity Critical Hours Methodology”). CCH are those hours when the Net [Regional Subregional](#) Capacity Need for [each Subregion in](#) the WRAP Region is expected to be above the 95th percentile, based on historical and synthesized data for [the each WRAP RSubregion’s gross-net load \(load – variable energy resource performance, and interchange other adjustments](#). CCH are used to help determine the capability of certain resource types during periods of highest system capacity need, in order to calculate the Qualifying Capacity Contribution (QCC) of such resources. CCH determination results in a [single](#) set of hours for [each Subregion the WRAP Region](#) for the relevant period. Resources may vary in terms of whether they operate during the determined CCH, but all resources [in a Subregion](#) that use CCH in the QCC determination are assessed against the same common set of CCH for [that the Subregion](#) for the same relevant period.

1.1. Intended Audience

BPM 104 is intended for WRAP Participants and other interested individuals or entities. BPM 104 is particularly useful for those individuals that are responsible for determining CCH used in the development of QCC for resources.

1.2. What You Will Find in This Manual

BPM 104 describes the methodology for determining CCH.

1.3. Purpose

To provide an overview of CCH and the processes for determining the CCH for the WRAP Region.

1.4. Definitions

All capitalized terms that are not otherwise defined in BPM 104 or another BPM have their meaning set forth in the [Tariff](#).

Capacity Critical Hours Methodology: The methodology used to determine the hours where the net regional capacity need is above the 95th percentile (highest capacity need hours).

Historical Load Data: As defined in [BPM 101 Advance Assessment](#).



Net ~~Regional-Subregional~~ Capacity Need: The ~~WRAP-RSub~~region's net need for capacity during a given hour, as calculated in accordance with the procedure described in BPM 104.

~~**Regional Interchange:** The net aggregate interchange between all Balancing Authority Areas in the WRAP Region and all Balancing Authority Areas outside the WRAP Region over a given ten-Year period, as calculated in accordance with the procedure described in BPM 104.~~

Resource-Specific Capacity Agreement: as defined in [BPM 106 Qualifying Contracts](#).

2. Background

CCH are those hours where the Net ~~Regional-Subregional~~ Capacity Need of the ~~WRAP-RSub~~region is above the 95th percentile. CCH are used in the methodology to determine the QCC of storage hydro, thermal, run-of-river (RoR), non-dispatchable resources, and contracts (based on individual resource accreditation). CCH may differ from the peak load hours of the ~~Subregion~~, because CCH determination considers not only load ~~of the WRAP Region~~, but also the performance of Variable Energy Resources (VERs), ~~as well as and may include other adjustments such as~~ the interchange across the footprint to arrive at a Net ~~Subr~~Regional Capacity Need:

Definition: Net ~~Subr~~Regional Capacity Need

***Net ~~Subr~~Regional Capacity Need = Load – Wind – Solar – RoR +
~~Regional Interchange~~ other adjustments***

where

Load is the aggregate Historical Load Data of all Participants in the ~~WRAP-RSub~~region in MW from the most recent ten-Year period,

Wind is the output of proposed and installed wind resources [in the Subregion](#) in MW for the most recent ten-Year period, including synthesized output for such period for resources that have fewer than ten years of output data;

Solar is the output of proposed and installed solar resources [in the Subregion](#) in MW for the most recent ten-Year period, including synthesized output for such period for resources that have fewer than ten years of output data;

Run-of-river (RoR) is the output of proposed and installed RoR resource [in the Subregion](#) in MW for the most recent ten-Year period, including synthesized

output for such period for resources that have fewer than ten years of output data;
and
other adjustments that may include regional interchange, impact of scarcity as determined by price, or other factors that may materially impact the determination of CCH. ~~Regional Interchange is the modified interchange in MW for the most recent ten Year period as calculated in accordance with the procedure described in Section 3.5.~~

Peak load hours, standing alone, are not the best indication of regional capacity need because hours of significant changes in resource performance or Regional Interchange other factors can significantly affect the region's need for capacity. For example, while there may be instances of high loads during the month of June, there is also usually an abundance of RoR generation. Since the output from RoR resources must be used at the time of such output, higher RoR output could result in periods of excess capacity even while loads are generally high. Higher wind or solar output can have similar effects, particularly as wind and solar resources increase their share of the resource portfolio in the WRAP Region.

The following FS Program methodologies rely on the CCH methodology (see [BPM 105 Qualifying Resources](#)):

- Storage Hydro QCC methodology determination
- Thermal Resource QCC determination
- Run of River QCC determination
- QCC determination of contracts (see the resource accreditation of each contract)
- QCC determination of VERs
- QCC determination of non-dispatchable, must-take resources

3. Derivation of the Net SubRegional Capacity Need components

3.1. Load (Demand)

Each Participant is responsible for providing ten Years of Historical Load Data for their respective system in accordance with [BPM 101 Advance Assessment](#). This data from each Participant will be compiled by the Program Operator to form the WRAP coincident peak load shape for the ten-Year period.

3.2. Wind Resource Output

Each Participant is responsible for providing the hourly generation profiles for the last ten Years from wind resources per [BPM 101 Advance Assessment](#) for their wind Qualified Resources and for wind resources in their Resource-Specific Capacity



Agreements. Participants will also provide their prospective wind resources that are expected to be in service for the Year that is studied two Years ahead in the applicable Advance Assessment (see [BPM 101 Advance Assessment Timeline](#) for more information). The data from all Participant wind resources will be compiled by the Program Operator into an aggregate [WRAP-Rsubregional](#) wind resource output for the ten-Year period.

For wind resources that have less than ten Years of output data, the Program Operator will complete the ten-Year period by using the synthesized wind output data that was developed for the same VER Zone in which the resource is located in the Loss of Load Expectation (LOLE) study (see [BPM 102 Forward Showing Reliability Metrics](#)) for the Binding Season at issue.

3.3. Solar Resource Output

Each Participant is responsible for providing the hourly generation profiles for the last ten Years from solar resources per [BPM 101 Advance Assessment](#) for their solar Qualified Resources and for solar resources in their Resource-Specific Capacity Agreements. Participants will also provide their prospective solar resources that are expected to be in service for the Year that is studied two years ahead in the applicable Advance Assessment. The data from all Participant solar resources will be compiled by the Program Operator into an aggregate [WRAP-Rsubregional](#) solar resource output for the ten-Year period.

For solar resources that have less than ten Years of output data, the Program Operator will complete the ten-Year period by using the synthesized solar output data that was developed for the same VER Zone in which the resource is located in the LOLE study (see [BPM 102 Forward Showing Reliability Metrics](#)) for the Binding Season at issue.

3.4. Run of River Output

Each Participant is responsible for providing the hourly generation profiles for the last ten Years from RoR resources per [BPM 101 Advance Assessment](#) for their RoR Qualified Resources and for RoR resources in their Resource-Specific Capacity Agreements. Participants will also provide their prospective RoR resources that are expected to be in service for the Year that is studied two years ahead in the applicable Advance Assessment. The data from all Participant RoR resources will be compiled by the Program Operator into an aggregate [subWRAP-Rregional](#) RoR resource output for the ten-Year period.

For RoR resources that have less than ten Years of output data, the Program Operator will complete the ten-Year period by using the synthesized RoR output data that was

developed for the same Subregion in which the resource is located in the LOLE study for the Binding Season at issue.

3.5. Additional Adjustments Regional Interchange

In determining Net Subregional Capacity Need, the Program Operator may apply additional adjustments when necessary to account for factors not otherwise reflected in the load and resource output components described in Sections 3.1 through 3.4 that may materially impact the determination of the CCH.

Additional adjustments may include regional interchange, impact of scarcity as determined by price, or other factors that affect the availability or need for capacity within a Subregion. The applicability and methodology for any such adjustment will be determined based on the circumstances and available data for the applicable Subregion and study period.

Any additional adjustment incorporated into the Net Subregional Capacity Need calculation will be applied on an hourly basis and in a manner intended to produce a representative measure of capacity need for the applicable Subregion. The Program Operator will document the data and methodology used for any additional material adjustment as part of the applicable CCH determination.

~~For the final component of Net Regional Capacity Need, i.e., Regional Interchange, the Program Operator aggregates and nets interchange data between Balancing Authority Areas in the WRAP Region and Balancing Authority Areas outside the WRAP Region. In this term of the formula, a positive value indicates a net export position, and a negative value indicates a net import position. For the ten-Year analysis required for CCH determination, the Program Operator uses the previous ten Years of regional interchange data from publicly available U.S. Energy Information Administration data. If the historical record reveals a consequential change in the WRAP Region's interchange with other Balancing Authority Areas (potentially driven by increased demand, emerging markets, and other factors), the Program Operator will identify such a change and adjust the historical record of the Years before a consequential change, such that a ten-Year data set representative of current conditions (after the consequential change) of Regional Interchange data can be used in the analysis. Such a consequential change has been observed in 2018 and an example of adjustments is included in Appendix A.~~

3.5.1. Further Modifications to Interchange

~~Further modifications to the interchange shape will be made to account for market conditions that result in high export periods where the capacity that was exported may have otherwise been able to have been used for the benefit of the WRAP Region (had~~

the program existed at the time). For example, if exports occurred during periods of excess capacity (e.g., high RoR output) within the WRAP Region, and the energy price outside of the WRAP Region was at typical market (or below market) prices, the capacity may not have been exported if the WRAP Region were to have a need for the capacity, as future conditions anticipate.

The following categories were created to evaluate these exports:

Economic sales: made possible by excess generation in the WRAP Region; the Regional Interchange calculation assumes this capacity would have been available for the WRAP Region, had it been needed.

Scarcity sales: in times of high market prices in areas outside of the WRAP Region, it was assumed that historical exports made during those time periods would not have been available, even if required by Participants.

In order to separate exports into the above two categories, energy market conditions were analyzed, and criteria were developed to determine whether exports may be economic sales or scarcity sales. The criteria are as follows:

- The market-clearing heat rate (price of power from Locational Marginal Price for the Day Ahead Market at the TH_SP15_GEN APND node divided by price of natural gas from SoCal daily gas price) for California was used as a proxy for external demand:
 - For conditions when the heat rate is less than 10mmBTU/MWh, exports from the WRAP Region were determined available to the WRAP Region; export interchange was reduced to zero (imports were unchanged). This low level of heat rate indicates that market prices were not reflecting scarcity events and the exports were economic.
 - For conditions when the heat rate is greater than 15mmBTU/MWh, exports from the WRAP Region were considered to be scarcity sales; accordingly, these values remained in interchange and were not used as a load modifier (imports were also unchanged). This higher heat rate is reflective of traditional peaking units, which are commonly operated and exported under scarcity conditions.
 - For conditions when the heat rate was greater than 10 but less than 15, exports were linearly reduced from their values at 15 to zero based on the observed heat rate relative to 10 and 15.

In addition, starting in 2013, a carbon adjustment of the actual California Carbon Allowance cost for the applicable vintage year (dollars per MTCO₂e), multiplied by the

~~prevailing California Air Resources Board unspecified emissions rate for that year is applied to California market price before determining the market clearing heat rate.~~

~~For import transactions, it was assumed that these imports would continue to be brought into the WRAP Region regardless of market conditions.~~

4. Determining the CCHs

Once the data from Section 3 is collected and aggregated by the Program Operator, the Net ~~Sub~~Regional Capacity Need is calculated for each hour in the ten-Year period. Then the 95th percentile of the Net ~~Regional-Subregional~~ Capacity Need for the ten-Year period is determined and each hour with a Net ~~Regional-Subregional~~ Capacity Need greater than that 95th percentile value is designated as a CCH, and each hour with a Net ~~R-Sub~~regional Capacity Need less than or equal to that 95th percentile value is not designated as a CCH.

CCH will be re-determined on an annual cycle (or more frequently, if the Program Administrator deems necessary due to signification changes in participation or calculation inputs) in conjunction with the Advanced Assessment, as detailed in [BPM 101 Advanced Assessment](#). The CCH will be posted on the Western Power Pool website.

Appendix A

An illustrative example for ten Year periods that include Years prior to 2018 is included here for reference. The method for determining future regional interchange assumes that i) recent interchange shape from 2018 and after is most representative of future patterns and ii) interchange during the hour ending 19:00 (meaning 07:00pm PPT) has changed the least from the pre-2018 period, given the lack of solar resource output during that hour, such that hour ending 19:00 can serve as a benchmark for adjusting the interchange observed in ten Year periods that include Years before 2018. Ten Year periods that include Years before 2018 require an adjustment methodology, as illustrated in this section. For example, in 2021 the Program Operator developed Regional Interchange from interchange data for the Years 2010-2020, where 2018-2020 was the last three Years and 2010-2017 was the previous seven Years.

- ~~Step 1—The interchange for all hours prior to 2018 is averaged on an hourly basis. See regional interchange data below in Figure 1.~~

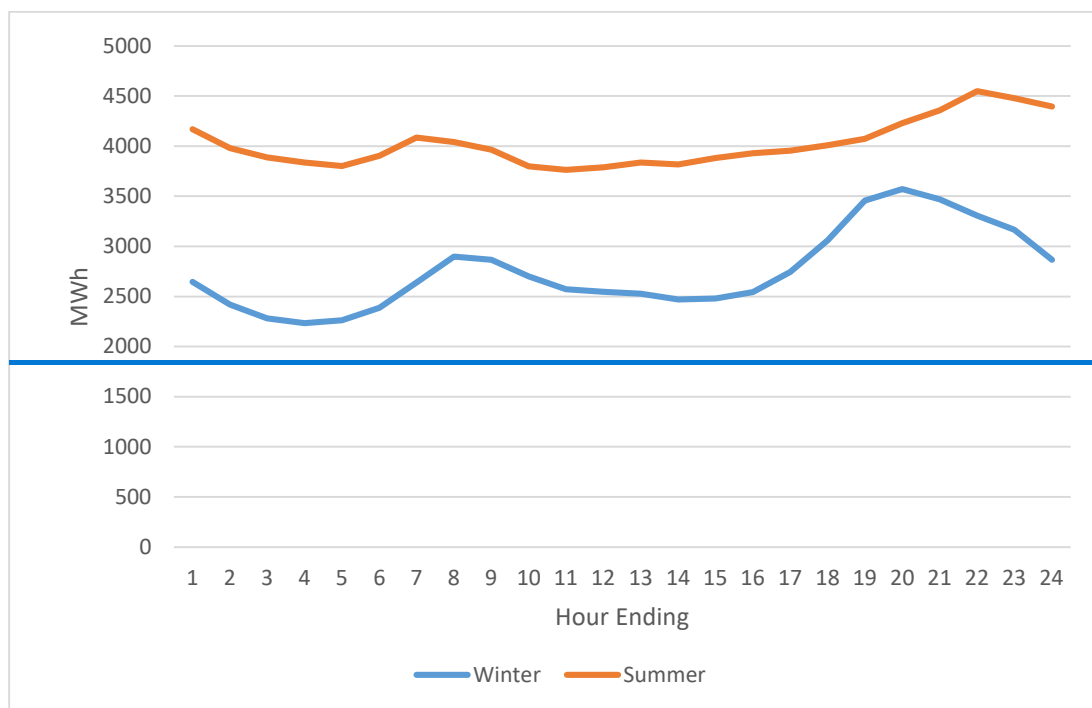


Figure 1. Raw regional interchange 2010-2017—a relatively flat/consistent interchange profile for both seasons.

- ~~Step 2—The interchange for all hours including and after 2018 is averaged on an hourly basis. See regional interchange data below in Figure 2.~~



Figure 2. Raw regional Interchange 2018-2020—declining daytime exports and peaks in morning and evenings. Roughly follows California solar production.

- ~~Step 3—The average interchange in hour ending 19 of 2018 and after is compared to all other hours of the hourly average interchange shape that was created using the hours before 2018. The difference of the averages is applied to the hourly average interchange for all ten Years.~~

~~In the example here, hour ending 19 compared to each individual hour (see arrows on Figure 3 of these interchange values from the 2018-2020) was then applied to the hourly interchange of all Years in the ten-Year period (2010-2020).~~

~~This results in a new hourly interchange shape for the entire ten-Year period.~~

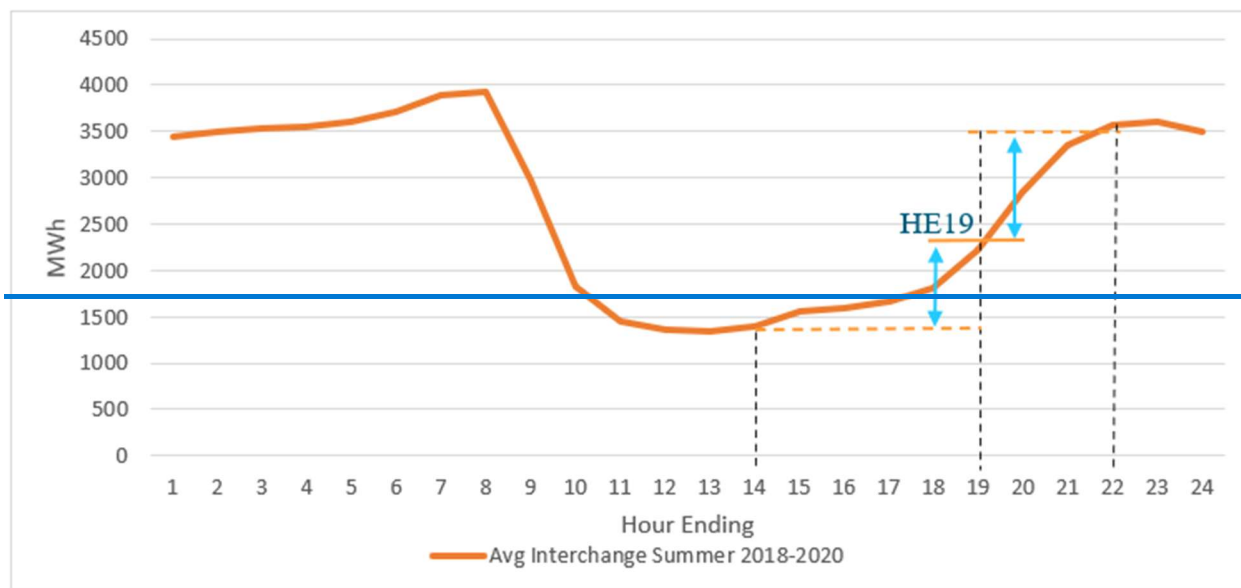


Figure 3. 2018-2020 hourly average loads were analyzed to determine appropriate offsets to apply to 2010-2017 load shapes.

Continuing the example, the results of the further modifications of the load shape described in this subsection resulted in the load shapes in Figure 4.

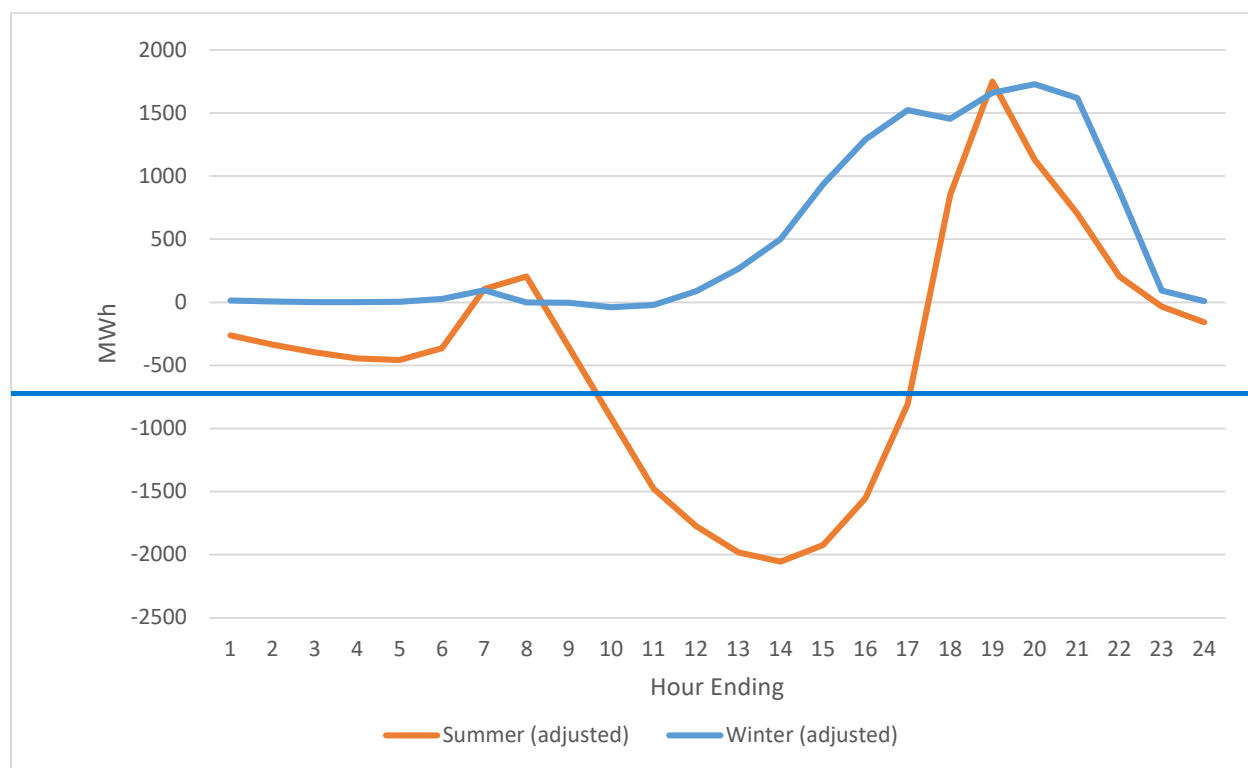


Figure 4. 2010-2020 interchange adjusted by CA heat rate analysis.



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Western Resource Adequacy Program

108 Forward Showing Submittal
Process

Revision History

Manual Number	Version	Description	Revised By	Date
108	0.1	RAPC Glance Version	Michael O'Brien	12/5/2024
108	0.2	Public Comment	Michael O'Brien	12/11/2024
108	0.3	RAPC & PRC Review	Michael O'Brien	2/14/2024
108	0.4	RAPC Endorsement	Michael O'Brien	2/22/2024
108	0.5	Board Approval	Michael O'Brien	2/29/2024
108	1.0	Board Approved	Michael O'Brien	3/7/2024
108	2.0	2025-NTFP-01 & 2025-NTFP-02	Elise Mousseau	9/25/25
108	3.0	Firm Tx TF Updates	Maya McNichol	3/17/2026
108	4.0	Annual BPM Review	Danie Williams	3/19/2026
<u>108</u>	<u>4.1</u>	<u>2026-NTFP-09 CCH By Subregion</u>	<u>Maya McNichol</u>	<u>9/4/2026</u>



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108 Forward Showing Submittal Process

1. Introduction

Forward Showing (FS) Submittal Process Business Practice Manual (BPM) 108 describes when and how each Participant provides its projected load and resource portfolio data to meet the Western Resource Adequacy Program (WRAP) FS Capacity Requirements and FS Transmission Requirements in the months of the Binding Seasons. The Western Power Pool's (WPP) FS Program is the forward-looking planning portion of the WRAP that aims to ensure the WRAP footprint has sufficient capacity to adequately serve projected peak load under a variety of possible scenarios. The FS Program includes the Advance Assessment (see [BPM 101 Advance Assessment](#)) that recommends FS Planning Reserve Margins (FSPRM) for Board approval and provides Qualifying Capacity Contribution (QCC) values for registered resources (see [BPM 105 Qualifying Resources](#)). The FSPRMs are applied to the P50 load forecasts of each Participant to set the FS Capacity Requirement for each month of a Binding Season. The FS Capacity Requirements shall be met by QCC from Qualified Resources and delivered consistent with the [Tariff](#)'s FS Transmission Requirements, at a minimum.

1.1. Intended Audience

BPM 108 is intended for WRAP Participants and other interested individuals or entities. BPM 108 is particularly useful for those individuals responsible for the Participant Organization's FS Submittal, which includes the FS Demonstration of the FS Capacity Requirement and FS Transmission Requirement, along with FS supporting materials on Qualifying Resource Capability Testing, treatment of Thermal Resources without North American Electric Reliability Corporation (NERC) Generating Availability Data System (GADS) data, Hydro Resource QCC results, late registered resources, and Transition Period exceptions (Excused Transition Deficits and Joint Contract Accreditation Forms (JCAFs)).

1.2. What You Will Find in This Manual

This document describes: the FS Deadline, Deficiency Notices and FS Cure Deadline Dates; the required FS Submittal materials, including the FS Demonstration and FS supporting materials, along with associated Senior Official Attestations; and Program Operator and Program Administrator review of Participants' FS Submittals.

1.3. Purpose

BPM 108 is intended to assist Participants in completing their FS Submittals, including the FS Demonstration and the required supporting material, on or before the FS Deadline for the applicable Binding Season.



1.4. Definitions

All capitalized terms that are not otherwise defined in BPM 108 have the meaning set forth in the [Tariff](#) or in another BPM.

Catastrophic Failure Monthly Report: A demonstration by a Participant with an approved catastrophic resource failure exemption that either the circumstances necessitating the exception have not changed or that Qualifying Resources have become available, and the Participant has acquired them and no longer requires the exception.

Cure Deadline: The date 120 Days after the FS Deadline after which any uncured deficiencies in a Participant's FS Submittal shall be assessed a FS Deficiency Charge.

Cure Period: The time period 120 Days after the FS Deadline during which a Participant shall submit revisions to its FS Submittal to fully cure all identified deficiencies.

FS Demonstration: A demonstration that a Participant has met satisfactorily its FS Capacity Requirement and FS Transmission Requirement.

FS Instruction Manual: A set of instructions available on the WPP website.

Monthly Transmission Exception Check-In: A demonstration by a Participant with an approved Monthly Transmission Exception for Enduring Constraints or Future Firm ATC Expected that its inability to meet the FS Transmission Requirement has not changed.

2. FS Deadline, Deficiency Notices and FS Cure Deadline Dates

The Forward Showing Program has two Binding Seasons: The Summer Season and the Winter Season. The FS Deadline, serving of Deficiency notices, and FS Cure Deadline for the Summer Season and Winter Season are 5:00 pm Pacific Prevailing Time (PPT) on the respective date indicated in Table 1. The Program Administrator shall serve a deficiency notice to each Participant where one or more deficiencies have been identified as part of the FS Submittal by 5:00 pm PPT on the respective date indicated in Table 1. Participants who served a deficiency notice may cure their deficiencies by resubmitting their FS Submittal with the missing or correct data by 5:00 pm PPT on the respective date indicated in Table 1. Deficiencies uncured by the FS Cure Deadline will be subject to the FS Deficiency Charge (see [BPM 107 Forward Showing Deficiency Charge](#)).



Table 1. FS Deadline, Deficiency Notices and FS Cure Deadline Dates

	Winter Season	Summer Season
FS Deadline	March 31 of each Year	October 31 of each Year
Program Administrator serve Deficiency notices	By May 30 of each Year	By December 30 of each Year
FS Cure Deadline	July 29 of each Year	February 28 of each Year

3. Forward Showing Submittal Materials

A Participant's FS Submittal shall include a FS Demonstration with the necessary information for each Binding Season to demonstrate the Participant has sufficient capacity and transmission service to satisfy the FS Capacity Requirement and FS Transmission Requirement. The FS Demonstration shall include the Participant's: load forecast for the upcoming Binding Season (see [BPM 103 Forward Showing Capacity Requirement](#)); demonstration of Qualifying Capacity Contribution (QCC) to meet its FS Capacity Requirement which can be from Qualifying Resources or contracts; demonstration of the FS Transmission Requirement needed for the reliable delivery of the QCC of the Participant's Qualifying Resources and Contracts to the Participant's load; applicable Monthly Transmission Exception requests and associated Senior Official Attestations; and a Senior Official Attestation for the FS Demonstration. In addition to the FS Demonstration, the FS Submittal shall include supporting FS materials including information on Qualifying Resource Capability Testing, Thermal Resources without GADS data, Hydro Resource QCCs and forced outages, late registered resources, and Transition Period exceptions.

3.1. FS Demonstration

As described in the FS Instruction Manual, a Participant must provide the Program Operator with the following information on loads, Qualifying Resources, contracts, and WRAP Qualifying Transmission to demonstrate it has satisfactorily met the FS Capacity Requirement and FS Transmission Requirement. A Participant's FS Demonstration shall be accompanied by the Senior Official Attestation found in Appendix A – FS Demonstration Attestation. The Program Operator determines whether a Participant has met its FS Capacity Requirement and FS Transmission Requirement using the method described in Appendix G – FS Summary.

3.1.1. Loads

Each Participant shall provide the following FS Demonstration load information as described in the FS Instruction Manual:

- Load name assigned for identification purposes and used for transmission mapping
- Balancing Authority Area (BAA) in which the load is located
- The load point of delivery (POD) on the transmission system
- Forecasted monthly peak demand (see methodology in [BPM 103 Forward Showing Capacity Requirement](#))

A Participant shall include all loads in its FS Demonstration for which it is responsible as well as documenting all loads it seeks to exclude (see [BPM 103 Forward Showing Capacity Requirement](#)): i.e. all loads within the western interconnection for which it is the LRE (or the exclusive wholesale electricity provider to the LRE) that are not covered by another resource adequacy program.

A Participant responsible for loads in two Subregions seeking to use the lower Monthly FSPRM may submit a single FS Submittal if the Participant can demonstrate sufficient WRAP Qualifying Transmission from the load in the Subregion with the lower Monthly FSPRM to the load in the Subregion with the higher Monthly FSPRM. The Participant will demonstrate WRAP Qualifying Transmission in the quantity equal to the difference between the two FSPRMs multiplied by the amount of load in the Subregion with the higher FSPRM. For example, if Region A has a FSPRM of 20% in July and Region B has a FSPRM of 15% in July, and Participant has 1000 MW of load in Region A, the Participant will demonstrate $(20\% - 15\%) * 1,000 \text{ MW}$ or 50 MW of WRAP Qualifying Transmission from its load in Region B to its load in Region A. This WRAP Qualifying Transmission shall be distinct from any transmission demonstrated for delivering Qualifying Resources to participant load. See [BPM 103 Forward Showing Capacity Requirement](#) for information on calculating the FS Capacity Requirement in circumstances where loads from two Subregions are included in a single FS Submittal. In addition, a Participant responsible for loads in two Subregions seeking to use the higher monthly FSPRM may also submit a single FS Submission if the Participant can sign the FS Demonstration attestation in Appendix A.

All load submitted by a Participant within a single FS Demonstration must be able to be served interchangeably by all Qualifying Resources and Qualifying Contracts in that same FS Demonstration, without the expectation that additional transmission rights will be required to deliver resources to load. In accordance with this, a Participant may be required to submit separate FS demonstrations, even as to loads residing in the same

Subregion, if the Program Administrator determines it is not practicable to treat such loads as if they can share in load and resource diversity for reasons that may diminish the integrity of WRAP reliability metrics, including but not limited to, if the Participant is responsible for (i) loads that are geographically distinct; (ii) loads that are separated by constrained transmission paths; or (iii) loads and resources that are not operated collectively (see [BPM 103 Forward Showing Capacity Requirement](#)).

Participant loads that cannot be served with a common set of Qualifying Resources and Qualifying Contracts shall therefore be submitted in separate FS Demonstrations. Each FS Demonstration will have a unique FS Capacity Requirement and a unique FS Transmission Requirement, and each of those two requirements shall be met individually and separately from any other FS Demonstrations submitted by a Participant.

3.1.2. Qualifying Resources

As part of the FS Demonstration, each Participant shall submit Qualifying Resources to satisfy the FS Capacity Requirement as described in the FS Instruction Manual. Qualifying Resources can be fully or partially owned by the Participant. The Participant shall use QCCs supplied by the Program Operator as part of the Advance Assessment (see [BPM 101 Advance Assessment](#)) unless the resource is being registered late (see [BPM 105 Qualifying Resources](#)). The components of a hybrid resource should be described separately (for example, solar separately from a battery) and the overall limits of the facility considered when submitting the QCC for each component (see [BPM 101 Advance Assessment - Data Request Instruction Manual](#) for hybrid resource limitations). The Qualifying Resource information provided in the FS Demonstration should be consistent with the information provided by the Program Operator as a result of Resource Registration (see [BPM 105 Qualifying Resources](#)).

If a Participant experiences a catastrophic Qualifying Resource failure and is unable to replace the QCC on commercially reasonable terms prior to the FS Deadline, the Participant can seek an exception by submitting the attestation in Appendix B – Catastrophic Resource Failure Exception. For each month following the FS Deadline that a Participant sought a catastrophic resource failure exception, the Participant shall complete a Catastrophic Failure Monthly Report (available on the WPP website) demonstrating either:

- the circumstances necessitating the exception have not changed; or

- that Qualifying Resources (either the ones experiencing the catastrophic failure or other resources) have become available, and the Participant has acquired them and no longer requires the exception.

The Catastrophic Failure Monthly Report will be due on the last day of each Month and will cover any catastrophic Qualifying Resource exception requested for the upcoming (or ongoing) Binding Season, except the Month directly preceding the earliest Month that is the subject of catastrophic Qualifying Resource request. For example, if a Participant has requested a catastrophic Qualifying Resource exemption for July and August of 2035 at the FS Deadline (October 31, 2034), such Participant will submit a Catastrophic Failure Monthly Report for the July and August exception requests on or before the last days of November and December, 2034, and on or before the last days of January, February, March, April, and May, 2035, but need not submit such report for the July exception request on the last day of June 2035. The Participant will submit a Catastrophic Failure Monthly Report solely as to the August exception request on or before the last day of June 2035.

If at any time there is a change in the circumstances that necessitated the exception such that the reasons for the exception no longer exist, or the Participant acquires other Qualifying Resources, the Participant will describe and demonstrate such acquisition in the next Catastrophic Failure Monthly Report, and upon acceptance of the demonstration, need not continue to provide a Catastrophic Failure Monthly Report for the exception no longer needed. Failure to submit a required Catastrophic Failure Monthly Report will result in an assessment of a Deficiency Charge, unless the deficiency is cured with seven days of notice of non-compliance.

The Program Operator and Program Administrator will seek to inform the Participant whether its exception request has been accepted within 14 Days of receiving the request. The impact of a successful exception request is explained in [*BPM 107 Forward Showing Deficiency Charge*](#). If a Participant submits a request for exception that WPP denies in whole or in part, the Participant may appeal such denial to the Board of Directors. To make such appeal, the Participant should submit an appeal, in the form outlined on the WPP website, including all information the Participant considers necessary to support its view that WPP erred in denying the requested exception. Any such appeal must be submitted no later than 14 Days after WPP's denial of the exception request. The Board may request that the Participant provide such additional information as the Board considers necessary for its action on the appeal. The timing of the Board's action on an appeal is in the Board's discretion.

3.1.3. Contracts

Each Participant shall also provide notification and representation of contractual purchases and sales as described in [BPM 106 Qualifying Contracts](#) and in the FS Instruction Manual.

3.1.4. Transmission

Each Participant shall demonstrate the FS Transmission Requirement. As described in the FS Instruction Manual, a Participant shall demonstrate it has secured transmission rights sufficient to deliver a MW quantity equal to at least 75% of the MW quantity of its FS Capacity Requirement. The FS Transmission Requirement must be met with WRAP Qualifying Transmission from the Participant's Qualifying Resource(s) or from the delivery points for the Qualifying Resources identified for its Net Contract QCC (or for its RA Transfer) to the Participant's load. The FS Demonstration shall include information on a Participant's transmission service reservations that it plans to utilize in the upcoming Binding Season to meet its FS Transmission Requirement. The FS Demonstration shall also map Qualifying Resources (see Section 3.1.2) and contracts (see Section 3.1.3) to a Participant's loads (see Section 3.1.1) using the transmission service reservation information provided, as described in the FS Instruction Manual. A Participant that has Qualifying Resource in its balancing area, but is not a transmission service provider – and is therefore unable to provide transmission service reservation information – will attest that it has the transmission rights from the generation to the load on its system (see Appendix J – Transmission Rights Attestation).

3.1.4.1. Transmission Exceptions

If a Participant's FS Demonstration does not include the required transmission service reservations to satisfy the FS Transmission Requirement, the Participant may request Monthly Transmission Exceptions. As described in more detail below, there are four categories of Monthly Transmission Exception available to a Participant [terminology mirrors terms used in standard form Open Access Transmission Tariffs (OATTs) and on Open Access Same-time Information Systems (OASIS)]:

- Enduring Constraints;
- Future Firm Available Transmission Capability (ATC) Expected;
- Transmission Outages and Derates; and
- Counterflow of a Qualifying Resource.

All Participants requesting a Monthly Transmission Exception are responsible for submitting the completed Transmission Exception request form found on the WPP website, along with the Senior Official Attestation found in Appendix C – Monthly Transmission Exception General Attestation – as part of their FS Submittal along with their FS Demonstration.

The Program Operator will review a Participant's Monthly Transmission Exceptions and notify the Participant of the status of its Monthly Transmission Exceptions for each month requested by 5:00 pm PPT on the 60th day after the FS Deadline.

If a Monthly Transmission Exception is denied (either because it is invalid or because circumstances changed and transmission has become available during the Program Operator's review of the Monthly Transmission Exception), the Participant will have the opportunity to cure its Transmission Deficiency on or before the last day of the Cure Period established for the relevant FS Submittal. The Participant may also appeal the rejection to the Board.

The Program Operator and Program Administrator will seek to inform the Participant whether its exception request has been accepted within 14 Days of receiving the request. If a Participant submits a request for exception that WPP denies in whole or in part, the Participant may appeal such denial to the Board of Directors. To make such appeal, the Participant should submit an appeal, in the form outlined on the WPP website, including all information the Participant considers necessary to support its view that WPP erred in denying the requested exception. Any such appeal must be submitted no later than 14 Days after WPP's denial of the exception request. The Board may request that the Participant provide such additional information as the Board considers necessary for its action on the appeal. The timing of the Board's action on an appeal is in the Board's discretion.

For each month following the FS Deadline that a Participant sought a Monthly Transmission Exception for Enduring Constraints or Future Firm ATC Expected, the Participant shall complete a Monthly Transmission Exceptions Check-in (available on the WPP website) demonstrating either:

- the circumstances necessitating the exception have not changed; or
- transmission has become available and the Participant has acquired it; or
- the Participant has acquired a different Qualifying Resource with the necessary firm transmission and no longer requires the Monthly Transmission Exception.

The Monthly Transmission Exception Check-Ins will be due on the last day of each Month and will cover any Monthly Transmission Exceptions requested for the upcoming (or ongoing) Binding Season, except the Month directly preceding the earliest Month that is the subject of the Monthly Transmission Exception request. For example, if a Participant has requested a Monthly Transmission Exception for July and August of 2035 at the FS Deadline (October 31, 2034), such Participant will submit a Monthly Transmission Exception Check-In for the July and August exception requests on or before the last days of November and December, 2034, and on or before the last days

of January, February, March, April, and May, 2035, but need not submit such check-in or the July exception request on the last day of June 2035. The Participant will submit a Monthly Transmission Exception Check-In solely as to the August exception request on or before the last day of June 2035.

If at any time, the Participant either acquires the necessary transmission or acquires a different resource and associated transmission, the Participant will describe and demonstrate such acquisition on the next Monthly Transmission Exception Check-In, and upon acceptance of the demonstration, need not continue to provide Monthly Transmission Exception Check-Ins for the exception no longer needed. Failure to submit a required Monthly Transmission Exception Check-In or rejection of the Monthly Transmission Exception Check-In in part or in whole (e.g. if contrary information is available to the Program Administrator, indicating transmission has become available for the month in question) will result in an assessment of a Deficiency Charge unless the deficiency is cured within seven days of notice of non-compliance.

3.1.4.1.1. Enduring Constraints

The Enduring Constraints Monthly Transmission Exception may be granted if the Participant is unable to demonstrate the necessary and sufficient WRAP Qualifying Transmission on any single segment of a source-to-sink path for a resource (exceptions will not be granted for two segments of a source-to-sink path) and the Participant demonstrates:

- there was no sufficiently firm ATC posted by a transmission service provider at the FS Deadline on the applicable segment for the months required; and
- there was remaining available ATC (non-firm ATC after the fact) for all CCHs in the same season of the most recent year for which CCHs have been calculated [in any Subregion in which the segment exists](#); or
- if the path was constrained in at least one CCH in the most recent same season from the most recently available CCH data set [in any Subregion in which the segment exists](#), that the Participant is:
 - constructing or contracting for a new local resource for at least the amount of Monthly Transmission Exception requested; or
 - pursuing long-term firm rights by entering the long-term queue and taking all appropriate steps for at least the amount of Monthly Transmission Exception requested.

If the required transmission rights for the applicable segment are only available for a duration of more than one year at the FS Deadline, a Participant is not required to obtain that service to qualify for the Enduring Constraints exception. However, in that circumstance, the Participant shall not qualify for an Enduring Constraint exception for

the same path (or across the same constraint) for the same month of the same season of the subsequent year if the Participant again declines the transmission rights that are available for a duration of more than one year.

In addition to the Monthly Transmission general exception discussed above in Section 3.1.4.1, a Participant requesting an Enduring Constraint Monthly Transmission Exception will need to include the Senior Official Attestation found in Appendix D – Enduring Constraint Additional Attestation as part of its FS Submittal.

3.1.4.1.2. Future Firm ATC Expected

The Future Firm ATC Expected exception may be granted when there is a reasonable expectation that sufficiently firm ATC will be made available following the FS Deadline and all the following criteria are met:

1. WRAP Qualifying Transmission is not posted or available prior to the FS Deadline; and
2. The Participant provides evidence that its transmission service provider has released additional WRAP Qualifying Transmission on the applicable path for all CCHs [that have been calculated in any Subregion in which the applicable transmission segment exists for in](#) the same season of the most recent year for which CCHs have been calculated [For the Subregion](#) following the FS Deadline; and
3. The Participant demonstrates that the amount of FS Transmission Requirement being requested for the Future Firm ATC Expected exception is equal to or less than the minimum volume of WRAP Qualifying Transmission rights ATC released in the previous year's CCHs [that have been calculated in any Subregion in which the applicable transmission segment exists](#) for the appropriate Binding Season.

If the required ATC on the applicable segment for the Month(s) needed is only posted or available prior to the FS Deadline for a duration of more than one year, a Participant is not required to obtain that service to qualify for the Future Firm ATC Expected exception. However, in that circumstance, the Participant shall not qualify for a Future Firm ATC Expected exception for the same path (or across the same constraint) for the same month of the same season of the subsequent year if the Participant again declines the ATC for transmission service rights that are available for a duration of more than one year.

The total amounts of Future Firm ATC Expected exceptions on specific paths is limited to the amount of transmission demonstrated to likely become available. If multiple Participants have requested a Future Firm ATC Expected exception on the same path,

the available volume will be granted on a pro-rata basis to requesting Participants based on the size of their requests.

3.1.4.1.3. Transmission Outages and Derates

The Transmission Outages and Derates exception may be granted when a Participant that has not met its FS Transmission Requirement demonstrates that all of the following criteria are met:

1. That an applicable segment of its existing transmission service rights from its source to sink path for its Qualifying Resource is expected to be derated or out-of-service and that additional ATC of WRAP Qualifying Transmission is not otherwise available; and
2. The duration of the Transmission Outages and Derates exception request coincides with the months of the outage or derate; and
3. The volume of the Transmission Outages and Derates exception being requested is either:
 - a. equal to or less than the reduction in the Participant's existing transmission service rights on that path for the applicable derate or outage period; or
 - b. equal to or less than the WRAP Qualifying Transmission for the applicable derate or outage period that would otherwise be posted and available for reservation were it not for the transmission limitation.

If multiple Participants have requested a Transmission Outages and Derates exception on the same path, the available volume (per Section 3.1.4.1.3 (3) above) will be granted on a pro-rata basis to requesting Participants based on the size of their requests.

3.1.4.1.4. Counterflow of a Qualifying Resource

A Counterflow of a Qualifying Resource exception may be granted if a Participant demonstrates that either:

1. The Participant's use of WRAP Qualifying Transmission service in connection with the delivery of capacity from Participant's Qualifying Resource (or from the resource associated with its Net Contract QCC) to Participant's load (or other qualifying delivery point permitted by the WRAP); or
2. A second Participant's use of WRAP Qualifying Transmission service in connection with the delivery of capacity from the second Participant's Qualifying Resource (or from the Qualifying Resource associated with its Net Contract QCC) to the second Participant's load (or other qualifying delivery point permitted by the WRAP)

provides a direct and proportional counterflow transmission that supports the first Participant's delivery of capacity from the first Participant's Qualifying Resource (or from the Qualifying Resource associated with its Net Contract QCC) to the first Participant's load (or other qualifying delivery point permitted by the WRAP) Qualifying Resource to its load.

If the Counterflow of a Qualifying Resource exception is requested under subpart (2) of this Section, the Participant requesting the exception shall include a written acknowledgement from the second Participant that it is aware of such exception request. Counterflow of a Qualifying Resource must be directly between two BAAs. Counterflows that involve three or more BAAs will not qualify for the Counterflow of a Qualifying Resource exception.

3.1.5. Planned Outages

Per the requirements of [Tariff](#) Section 16.2.8, any planned outages during a Binding Season must be taken from a Participant's surplus (above its FS Capacity Requirement).

3.1.5.1. Planned Outages underway at the time of FS Submittal

Any Qualifying Resource that is out of service at the time of the FS Deadline and is planned to remain out of service for the first five or more days of a month in the Binding Season cannot have such Qualifying Resource's QCC counted toward meeting the Participant's FS Capacity Requirement for that month.

To ensure QCC from resources is not utilized to meet a monthly FS Capacity Requirement during the planned outage, the Capacity associated with such resources shall be deducted by identifying the planned outages in the FS Demonstration.

3.1.5.2. Planned Outages not underway at the time of the FS Submittal

Participants have the discretion to take planned outages at any time during the Binding Season but are required to take planned outages out of their surplus FS Demonstration capacity or to procure additional supply to replace such capacity on outage. This requirement ensures the participant's FS Capacity Requirement is available during the Operation Program timeframe.

Participants may provide information on Qualifying Resources that are planned to be out of service during the Binding Season as part of their FS Submittal to ensure QCC from those resources is not utilized to meet a monthly FS Capacity Requirement during the planned outage. Capacity associated with such resources shall be deducted from the FS Demonstration for such month(s).

Each Participant shall provide a Senior Official Attestation (found in Appendix E – Planned Outages Attestation) by the FS Deadline that:

- The sum of expected planned outages at any one time during the Binding Season will be equal to or less than the surplus stated in its FS Demonstration at the time of such planned outage, or
- The Participant is expected to procure the necessary capacity or energy to meet the Operations Program requirements regardless of planned outage schedules.

A planned outage shall not justify a waiver of, or exception to, a Participant's Holdback Requirement or Energy Deployment obligations.

3.2. Forward Showing Supporting Materials

In addition to the FS Demonstration (see Section 3.1), accompanying Monthly Transmission Exception Requests (see Appendix C – Monthly Transmission Exception General Attestation) and required Senior Official Attestations, a Participant's FS Submittal shall also include supporting information on Qualifying Resource testing, Thermal Resources without GADS data, Hydro Resource QCCs, late registered resources, and transition exceptions.

3.2.1. Testing

As described in [BPM 105 Qualifying Resources](#), Participants shall perform annual Operational Tests on all Qualifying Resources. In addition, Capability Tests shall be required for Thermal Resources, Long Duration Storage resources, and Demand Response Resources. Each Participant's FS Submittal must include a completed resource testing report, employing for such purpose the resource testing form that is made available on the WPP website.

3.2.2. Thermal Resources that are not Required to Report GADS Data

[BPM 101 Advance Assessment](#) describes the data request sent out by the Program Operator to gather the information required to calculate QCC values for Qualifying Resources. The Advance Assessment data request includes NERC GADS or equivalent outage data that can be used to calculate the outage rates and factors for existing Thermal Resources. However, as discussed in [BPM 105 Qualifying Resources](#), certain Thermal Resources are not required to report GADS data. For all Qualifying Resources not providing GADS reporting data, the Participant will be required to provide a Senior Official Attestation (provided in Appendix F – Non-GADS QCC Calculation Attestation) as part of its FS Submittal that attests the resource is not subject to GADS reporting and

the FS Demonstration submitted by the Participant is an accurate depiction of either the historical performance or historical outage data of the resource.

3.2.3. Hydro Resources

As discussed in [BPM 105 Qualifying Resources](#), QCCs for Storage Hydro resources are calculated by the Participant owners. The result of those calculations shall be submitted as part of a Participant's FS Submittal in the format described in [BPM 105 Qualifying Resources](#) and the FS Instruction Manual. The Storage Hydro QCC Methodology utilizes an equivalent demand forced outage rate (EFORd) value as an input. Participants shall supply as part of their FS Submittal a NERC GADS report showing the EFORd value. For all Storage Hydro resources that do not report NERC GADS data, the Participant shall similarly calculate an EFORd value from historical performance data and the non-GADS outage calculation tool as posted on the WPP website. The Participant will provide the output of this tool and a Senior Official Attestation (provided in Appendix F – Non-GADS QCC Calculation Attestation) attesting that the resource is not subject to GADS reporting and that the Participant has utilized the non-GADS outage calculation tool with complete and correct information. Participants will also provide a Senior Official Attestation (in the form provided in *Appendix I*) that their calculation of the Storage Hydro QCC value is correct, accurate, and in compliance with the requirements of the [Tariff](#).

3.2.4. Late Registered Resources

As discussed in [BPM 105 Qualifying Resources](#), resources that are unable to register by the deadline of the Advance Assessment data request (see [BPM 101 Advance Assessment](#)) may still be able to register prior to the FS Deadline so long as the necessary information is provided.

3.2.5. Transition Exceptions

[BPM 109 Forward Showing Transition Period](#) discusses how a new Participant application to the Program Administrator prior to March 31, 2027, shall be required to select an initial Binding Season during the Transition Period (Summer seasons for 2025, 2026, and 2027, and the Winter seasons for 2025-2026, 2026-2027, and 2027-2028). During its Transition Binding Seasons, a Participant may be able to request potential reductions in Deficiency Charges as described below.

3.2.5.1. Excused Transition Deficits

During a Participant's Transition Binding Seasons, Deficiency Charges otherwise applicable to the Participant under Section 17.1 of the [Tariff](#), and calculated under Section 17.2, shall be reduced to the extent the Participant has an Excused Transition

Deficit (ETD). To obtain an ETD for a Binding Season, the Participant must provide a Senior Official Attestation, as included in [BPM 109 Forward Showing Transition Period](#).

3.2.5.2. Legacy Contract – No Joint Contract Accreditation Form (JCAF) Option

In addition to an ETD, during the Transition Period a Participant may be able to reduce its Monthly Capacity Deficiency to the extent the deficiency is due to the Participant's failure to obtain assent to a JCAF from the supplier under a Legacy Agreement (a power supply agreement entered into prior to October 1, 2021), as explained in [BPM 109 Forward Showing Transition Period](#) (the No-JCAF Option). To obtain that relief, the Participant must provide a Senior Official Attestation (in the form set forth in [BPM 109 Forward Showing Transition Period](#)) as part of its FS Submittal attesting that the Participant made commercially reasonable efforts to execute the required JCAF with the supplier under the Legacy Agreement, but the supplier was unable or unwilling to counter sign the JCAF.

4. Cure Period

The Program Operator and Program Administrator shall review Participants' FS Submittals and the Program Administrator shall serve deficiency notices in writing to any Participant that has not, by the FS Deadline shown in Table 1, submitted all required FS Submittal information and materials (see Section 3), or that has submitted information or materials that the Program Operator has found is or may be incorrect or deficient. Participants served a deficiency notice will have until the dates shown in Table 1 to cure their deficiencies. Deficiencies uncured by the time of the FS Cure Deadline shall be subject to the FS Deficiency Charge (see [BPM 107 Forward Showing Deficiency Charge](#)).

Appendix A – FS Demonstration Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that I have reviewed [Participant]’s FS Submittal provided this day by [Participant] to Western Power Pool, and that to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed herein, and that the statements therein are true, correct and complete per all of the requirements of Business Practice Manual 108.

Appendix B – Catastrophic Resource Failure Exception Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that, as set forth in the accompanying request for an exception from the FS Capacity Requirement for the [specify season] Binding Season, (i) [Participant] has experienced a catastrophic failure of its [identify] Qualifying Resource[s] due to an event of Force Majeure as defined by Section 8.1 of the WRAP [Tariff](#); (ii) [Participant] is unable to replace the QCC quantity of such Qualifying Resource[s] on commercially reasonable terms prior to the FS Deadline of [specify date] as a result of the timing and magnitude of such catastrophic failure and its consequences; and (iii) the statements in the accompanying FS Capacity Requirement exception request, including the information provided therein on the nature, causes and consequences of the catastrophic failure[s], and [Participant]’s specific, concrete efforts prior to the referenced FS Deadline to secure replacement Qualifying Resources for the [specify season] Binding Season, are true, correct and complete to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed therein.

Appendix C – Monthly Transmission Exception General Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that, as set forth in the accompanying request for an exception from the FS Transmission Requirement for the [specify season] Binding Season, (i) [Participant] meets the stated WRAP requirements for the exception; and (ii) the statements in the accompanying FS Transmission Requirement exception request are true, correct and complete to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed therein.

Appendix D – Enduring Constraint Additional Attestation

I further attest, in support of [Participant]’s request for the Enduring Constraints Transmission Exception, that (i) no ATC for transmission service rights for which the exception is requested is available (either from the transmission service provider or through a secondary market) as of the FS Deadline, on the applicable segment for the Month(s) needed (for a duration of one year or less) at the applicable Open Access Transmission [Tariff](#) rate or less; (ii) [Participant] has taken commercially reasonable efforts to procure firm transmission service rights, and (iii) [Participant] has posted a request for the necessary firm transmission rights on the relevant bulletin board, (i.e., OASIS) prior to the FS Deadline.

Appendix E – Planned Outages Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that: (i) as set forth in [Participant]’s FS Submittal provided this day by [Participant] to Western Power Pool, Participant has included information on all Qualifying Resources that are currently out of service with a scheduled return date that falls during the [specify season] Binding Season; (ii) Participant [has] [does not have] certain additional outages at Qualifying Resources that are planned to occur during the [specify season] Binding Season but have not yet begun at the time of submission of the FS Submittal; (iii) Participant has made reasonable efforts to obtain and provide information on any such additional outages, but such data cannot be supplied with reasonable specificity; (iv) the aggregate of any such additional outages is either expected to be equal to or less than [Participant]’s remaining surplus as defined by [Participant]’s Portfolio QCC in excess of [Participant]’s FS Capacity requirement or to the extent it is not excess it will be replaced with the necessary capacity or energy to meet the Operations Program requirements, consistent with Section 16.2.8.2 and Part III of the [Tariff](#); and (v) that the foregoing statements are true, correct and complete to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed herein.

Appendix F – Non-GADS QCC Calculation Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that the resource that is the subject of this form is not subject to GADS data reporting; and that the resource's performance data (historical output or historical outage evaluation) for the Capacity Critical Hours of the [specify season] Binding Season is accurately accounted for in the accompanying FS Submittal.



Appendix G – FS Summary

A Participant's total Portfolio QCC is defined as the Participant's Resource QCC plus its Net Contract QCC plus its total RA transfer minus its planned outages for each month of the Binding Season.

Portfolio QCC

$$= \text{Resource QCC} + \text{Net Contract QCC} + \text{Total RA Transfer} \\ - \text{Planned Outages}$$

Where:

Resource QCC is the summation of all QCC values for the Participant's Qualified Resources calculated for each month of a Binding Season.

$$\text{Resource QCC} = \sum \text{QCC of all Participant Qualifying Resources}$$

The Net Contracted QCC is a monthly value equal to the sum of the Participant's Contract QCCs. Import contracts (purchases) are additive to the Participant's QCC value and exports (sales) are a negative QCC value. The Net Contract QCC formula is as follows:

$$\text{Net Contract QCC} = \sum \text{QCC of all Participant Qualified Contracts}$$

Resource adequacy transfers are added to the purchasing Participant's Portfolio QCC value and subtracted from the selling Participant's Portfolio QCC value. The contracts for these transfers will be provided to the Program Operator for validation.

$$\text{Total RA Transfer} = \sum \text{Participant RA Transfer Contracts}$$

The Participant's Total Portfolio QCC should be at least equal to the Participant's FS Capacity Requirement for each month of the Binding Season. If the Participant's Total Portfolio QCC meets or exceeds that threshold, then the Participant's FS Capacity Requirement has been satisfied.

$$\text{Total Portfolio QCC} \geq \text{FS Capacity Requirement}$$

Where:

The Participant's FS Capacity Requirement is its forecasted monthly demand multiplied by 100% plus the applicable Monthly FSPRM according to the following equation:



$$FS \text{ Capacity Requirement} = \text{Monthly P50} * (100\% + \text{Monthly FSPRM})$$

The over and underperformance of VERs, forced outages, and Run-of-River hydro in the Participant's portfolio will be used to calculate performance changes in the Operations Program. The Participant's additional planned maintenance or short-term sales will be made from its excess Portfolio QCC.

The Participant's total demonstrated FS Transmission shall be at least equal to 75% of the Participant's FS Capacity Requirement at the FS Deadline. If the Participant's Total Portfolio QCC meets or exceeds that threshold, then the Participant's FS Transmission Requirement has been satisfied.

$$\text{Demonstrated FS Transmission} \geq \text{FS Capacity Requirement} * 75\%$$

Where:

Demonstrated FS Transmission is equal to the sum of all transmission demonstrated with completed paths and Approved Transmission Exceptions.

$$\begin{aligned} \text{Demonstrated FS Transmission} \\ &= \sum \text{Transmission Demonstrated (completed paths)} \\ &\quad \mp \text{Approved Transmission Exceptions} \end{aligned}$$

Appendix H – Demand Response Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that for each Demand Response Qualifying Resource included in the accompanying FS Submittal, [Participant,] upon due investigation, has determined whether the demand response capability of such resource has been previously deployed to reduce load, and if such capability has been deployed to reduce load, Participant has, for purposes of developing the P50 Peak Load Forecast employed in such FS Submittal, added back to each historic hour when such capability was deployed the MWs of load reduction provided by such capability in such hour.

Appendix I – Storage Hydro Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that I have reviewed [Participant]’s Storage Hydro Qualifying Capacity Contribution (QCC) provided this day by [Participant] to Western Power Pool (i.e., Program Administrator) ; and, to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed therein, that such QCC has been calculated in accordance with the methodology set forth in [BPM 105 Qualifying Resources](#) and such calculation meets all requirements of [Tariff](#) Section 16.2.5.5; that [Participant] has provided the Program Administrator with all information necessary to review such QCC that is stated in [Tariff](#), Section 16.2.5.5, to the extent requested by the Program Administrator, and that all statements and information included in the FS Submittal with respect to the calculation of such QCC are true, correct and complete to the best of my knowledge and belief following due inquiry appropriate to the reliability and resource adequacy matters addressed therein.

Appendix J – Transmission Rights Attestation

I, the undersigned, who, as [title], serves as a senior official of [Participant], hereby attest that [Participant] has the transmission rights from [insert Qualifying Resources] Qualifying Resources to the load on [Participant's] system, but [Participant] is unable to provide transmission service reservation information.