



Provider of Choice - JOE Planned Products

JOE – Planned Product Approach

- For any of BPA's planned product offerings (Block and Slice/Block), BPA will treat the relationship between the JOE and its Members for the Provider of Choice Contract as follows:
 - Consistent with BPA's Policy which allows a JOE to purchase a, “pooled” or aggregated amount of requirements power based on its members' individual net requirements.”
 - When appropriate, BPA will sum each individual Member's contribution to determine the JOE-level amounts for various components of the applicable planned product.
 - Exhibit A, for example, will capture both the JOE-level and individual members' Forecasts of Total Retail Load and Annual Forecast of Monthly Net Requirement.



JOE Block Product



JOE – Block

- **For the Block products BPA will:**
 - First, calculate Net Requirement and Block product elements for each member of a JOE.
 - Member Level Calculations -
 - Attributable Portion of Annual Tier 1 Block (aMW)
 - Monthly Block Shaping Factors (if applicable)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MW/hr)
 - Then, add each Member's outputs into a JOE-level aggregate level Block amount.
 - JOE Aggregate Level Calculations –
 - Annual Tier 1 Block (aMW)
 - Tier 1 Monthly Block Amounts (MW/hr)
- **JOE will receive power and be billed based on the JOE aggregate level amounts.**



JOE - BWSC and Peak Load Variance Service (PLVS)

JOE – Block with Shaping Capacity

- **For the Block with Shaping Capacity products, BPA will:**
 - First, calculate Peak Net Requirement and other Shaping Capacity elements for each Member of a JOE.
 - **Member Level Calculations -**
 - Peak Net Requirement (MW)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MW/hr)
 - Attributable Portion of Monthly Ramp Rate (MW)
 - Then, add each Member's outputs into a JOE level aggregate BWSC product elements.
 - **JOE Aggregate Level Calculations –**
 - Monthly Shaping Capacity Amounts (MW)
 - Maximum and Minimum Hourly Energy Amounts (MW/hr)
 - Monthly Ramp Rate (MW)
- **JOE will be able to utilize Shaping Capacity and be billed based on the JOE aggregate level amounts.**

JOE – BWSC with PLVS

- **For the PLVS portion of the BWSC at PNR with PLVS product, BPA will:**
 - First, calculate P50 and P10 Peak Net Requirement for each Member of a JOE.
 - **Member Level Calculations -**
 - P50 and P10 Peak Net Requirement (MW)
 - Then, add each Member's outputs into JOE level aggregate level PLVS product elements.
 - **JOE Aggregate Level Calculations –**
 - P50 and P10 Peak Net Requirement (MW)
 - Annual PLVS Pool (MWh)
 - Daily Energy Limit During a PLVS Event (MWh)
- There will be one election per JOE for the PLVS Event Availability, and the number of PLVS Events a JOE receives may increase based on its membership's peaking characteristics.

Block Product Options

Block Product Options

1. Flat Annual Block
2. Flat Monthly Block
3. Diurnally Shaped Block
4. Block with Shaping Capacity (BWSC) (add on to flat monthly block)

Different Options For Block with Shaping Capacity (BWSC)

- A. BWSC with Base 10% Shaping Capacity
- B. BWSC with PNR Shaping Capacity
- C. BWSC with PNR Shaping Capacity + PLVS

*Any request to switch between any of the options above will be considered a product switch under Provider of Choice.



Slice/Block



JOE – Slice Block

- **For the Slice/Block product, BPA will:**
 - Calculate the Preliminary Net Requirement and Slice/Block product elements for each member of a JOE.
 - Member Preliminary Net Requirement (annual aMW)
 - **Member Level Slice Calculations -**
 - Member Slice Percentages
 - Attributable Portion of Firm Slice Amounts (monthly aMW and MWh)
 - **Member Level Block Calculations -**
 - Attributable Portion of Annual Tier 1 Block (aMW)
 - Monthly Block Shaping Factors (if applicable)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MWh)

JOE – Slice Block

- **For the Slice/Block product, BPA will:**
 - Calculate the JOE level aggregate Slice Percentage as the sum of the Members' Slice Percentages.
 - **JOE Aggregate Level Slice Calculations –**
 - Slice Percentages
 - Firm Slice Amount (monthly aMW and MWh)
 - Then, add each Member's outputs into a JOE level aggregate level Tier 1 Block Amounts.
 - **JOE Aggregate Level Block Calculations –**
 - Annual Tier 1 Block (aMW)
 - Tier 1 Monthly Block Amounts (MWh)