# ISSUE #9: TRANSMISSION LOSSES

Step 4: Discussion on possible alternatives to solve Issue

# Agenda

Discuss Alternatives (Step 4)

# **Objectives**

- Settling of transmission wheeling losses
  - Ensure that BPA captures
    - Value of capacity
    - Value of energy
  - Minimize
    - Administrative costs of system administration,
      maintenance, and reconciliation of deviations
    - Load uncertainty

#### **Customer Comment Themes**

#### **BPA** Response

Customers suggested financial settlement of deviations of loss returns (expected vs actual)

Considered in alternatives 2 through 5

Customers requested to understand BPA's willingness to review and alter it's financial settlement

Considered in alternatives 3, 5 and 6

Customers requested the ability to elect physical or financial settlement of loss obligations

Considered in alternatives 1 through 5

Alternative	Time to Return In-Kind	Settle Delivery Errors Financially?	Financial Rate Set by
1. Keep Status quo	168 hours	No	Trading Floor
2. Keep in-kind at 168 hours + implement financial settlement only for inaccurate return of energy ("Financial for inaccuracy - FFI")	168 hours	Yes	Trading Floor
3. Keep in-kind at 168 hours + change financial rate to be set in rate case + implement FFI	168 hours	Yes	Rate Case
<ul><li>4. Change in-kind to concurrent only</li><li>+ implement FFI</li></ul>	Concurrent	Yes	Trading Floor
5. Change in-kind to concurrent only + change financial rate to be set in rate case + implement FFI	Concurrent	Yes	Rate Case
6. Change to financial settlement only	N/A	N/A – No delivery	Rate Case

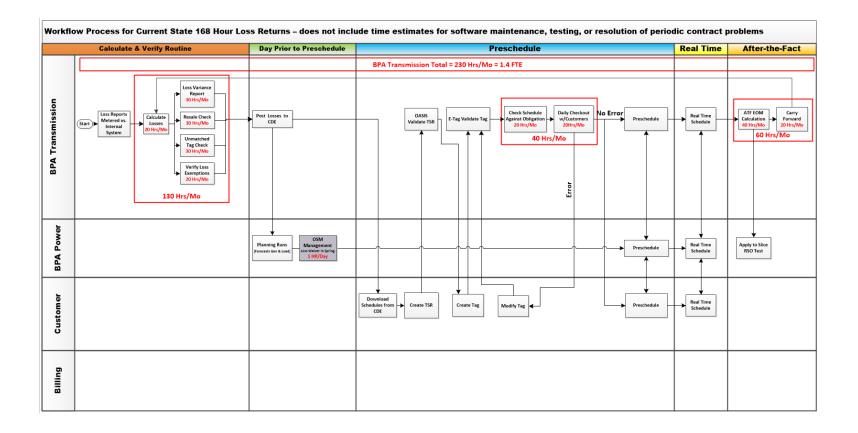
#### Alternative 1 - Status Quo

- Financial Settlement
  - Price established by BPA Power Trading Floor
- In-Kind
  - Delivery is scheduled for 168 hours following the hour of incurring the line loss
  - Incorrect MWs are rolled forward to another hour/day
- Slice
  - Losses are deducted from Slice Right-To-Power 168 hours following the hour of incurring line loss

Note: Additional context available from 12/12/19 customer workshop:

https://www.bpa.gov/Finance/RateCases/BP-22-Rate-Case/Documents/121219-Tx-Losses-Steps-1-3.pdf

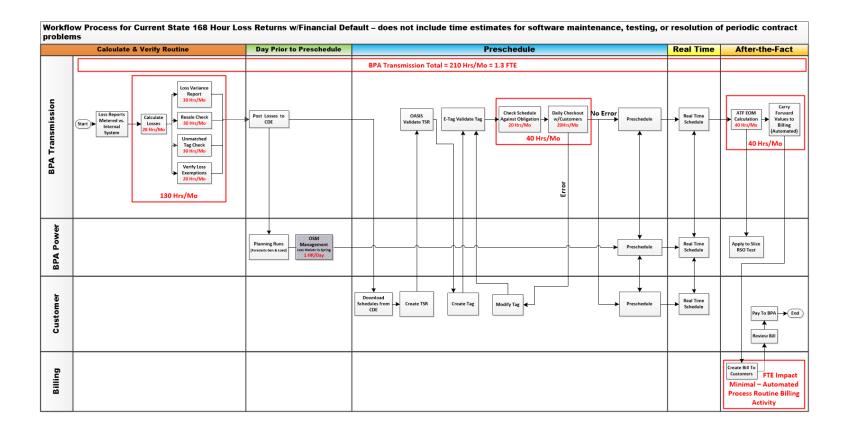
## In-Kind Process – Current State



- Financial Settlement
  - Price established by BPA Power Trading Floor
- In-Kind
  - Delivery is scheduled for 168 hours following the hour of incurring the line loss
  - Incorrect MWs are settled financially
- Slice
  - Losses are deducted from Slice Right-To-Power 168 hours following the hour of incurring line loss

- Financial Settlement
  - Price established through BP-22 rate proceedings
- In-Kind
  - Delivery is scheduled for 168 hours following the hour of incurring the line loss
  - Incorrect MWs are settled financially
- Slice
  - Losses are deducted from Slice Right-To-Power 168 hours following the hour of incurring line loss

#### 168 Hour Return + Default to Financial



- Financial Settlement
  - Price established by BPA Power Trading Floor
- In-Kind
  - Delivery is scheduled for concurrent time by the customer
  - Incorrect MWs are settled financially
- Slice
  - Losses are deducted from Slice Right-To-Power concurrently

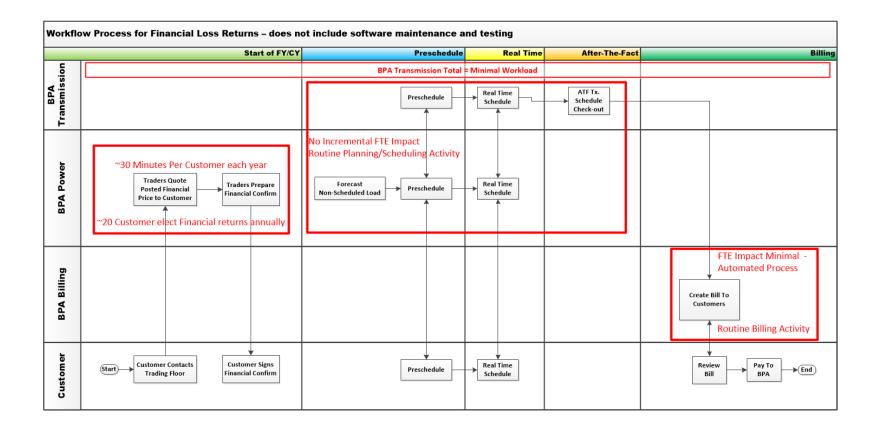
Note: Prior customer comments indicated concern regarding design, implementation, and workload for concurrent loss returns

- Financial Settlement
  - Price established through BP-22 rate proceedings
- In-Kind
  - Delivery is scheduled for concurrent time by the customer
  - Incorrect MWs are settled financially
- Slice
  - Losses are deducted from Slice Right-To-Power concurrently

Note: Prior customer comments indicated concern regarding design, implementation, and workload for concurrent loss returns

- All Customers are transitioned to financial settlement of losses
  - Financial Settlement
    - Price established through BP-22 rate proceedings

### Financial Loss Returns Process



#### Criteria for Decision

- Aligned with the pro forma tariff and/or industry standards or best practices.
- Appropriate and fair compensation for FCRPS Capacity and Energy
- Efficiency of process and ease of administration, including managing deviations and imbalances
- Simplicity of policies to administer and enforce
- Cost of on-going IT system maintenance
- Align losses valuation with pricing and scheduling used when commercially purchasing energy
- Customer impact

# **Next Steps**

- Workshop on May 19, 2020
  - Step 5 Customer feedback on loss returns alternatives
  - Pricing methodology
  - Update on loss factor analysis
- Workshop on June 23, 2020
  - Step 6 Staff proposal for loss returns alternatives
  - Discuss customer feedback
    - Pricing methodology and loss factor update