Transmission Use Update

5/17/2022
Objective

BPA is providing the following Transmission Usage Data:

• Congestion data from the previous 7 months (October – April)
• Flows on North of Echo Lake (NOEL) and South of Allston (SOA)
ATC Short-Term Constraints
TTC and Curtailments

- The Total Transfer Capability (TTC) is used for limiting commercial sales and can be an indicator of potential congestion, but dispatcher action is not required based on TTC alone.

- Dispatcher action is driven by the contingency studies run by the real-time study engineer. Action is only required if those studies indicate that a Facility Rating would be exceeded if certain contingencies were to occur.

- In the update period, there were no instances in which real time operations utilized curtailment or redispatch on BPA’s internal flow-based paths to mitigate facility ratings violations.
Actual Flows Within 20% of Dynamic TTC

Pre-decisional. For Discussion Purposes Only
# Hours When Flow => 100% Dynamic TTC

![Graph showing the number of hours when flow reaches 100% for Dynamic TTC for different months.]

- **May 2021**: 0.5 hours
- **Sep 2021**: 4.25 hours
- **Apr 2022**: 8.25 hours
Actual Flow vs Dynamic TTC: NOEL
Actual Flow vs Dynamic TTC: SOA

Pre-decisional. For Discussion Purposes Only
Product Usage: NOEL – April 25-30, 2022
# System Event Details

<table>
<thead>
<tr>
<th>Event</th>
<th>Occurrence</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curtailments:</td>
<td>0</td>
<td>System-wide</td>
</tr>
<tr>
<td>Flow-Based Path Redispatch:</td>
<td>0</td>
<td>Discretionary, NT, and Emergency</td>
</tr>
<tr>
<td>TLR Avoidance Events (15 min segments):</td>
<td>0</td>
<td>TLR Avoidance Events</td>
</tr>
<tr>
<td>Refused TSRs due to TLR Avoidance:</td>
<td>0</td>
<td>Refused TSRs due to TLR Avoidance</td>
</tr>
<tr>
<td>Outages resulting in Events:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Percentage of hours where actual flows were within 20% of TTC:</td>
<td><strong>0.29% System-wide</strong></td>
<td>1.75% across NOEL Flowgate</td>
</tr>
</tbody>
</table>

Pre-decisional. For Discussion Purposes Only
Dispatcher Actions

- Responded to Outages by adjusting TTCs
- No Redispatch needed (discretionary, NT, or emergency)
- No Curtailments needed
- No TLR Avoidance needed

*Takeaway: The Transmission System is operating efficiently and is absorbing events with potential negative impacts effectively*
Wrap Up

- See additional transmission data at the TC-20 Hourly Firm page: https://www.bpa.gov/energy-and-services/transmission/hourly-firm-data-monitoring-evaluation

- Please send Questions/Comments to techforum@bpa.gov, with a copy to your Account Executive