PA Central Reactive Transfer Interface

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Background

- Increase in gas generation plants in Central PA.
- Planned transmission outages on the 500 kV system for maintenance.
  - Current scheduled outage for 10/16/18-10/20/18 (edart # 766147)
- Studies identified voltage issues on the 500 kV system under certain generation patterns along with a 500 kV transmission line outage.
  - A reactive transfer interface is needed to control for a contingent voltage drop on the 500 kV system.
• **Definition:**
  - Lackawanna–Hopatcong 500 kV line
  - Sunbury–Juniata 500 kV line
  - Susquehanna–Wescosville 500 kV line
<table>
<thead>
<tr>
<th>Type</th>
<th>Company</th>
<th>Zone</th>
<th>Station</th>
<th>Voltage</th>
<th>Name</th>
<th>Eq. End</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE</td>
<td>PL</td>
<td>PL</td>
<td>LACKAWAN</td>
<td>500 KV</td>
<td>HOP-LAC</td>
<td>B</td>
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<tr>
<td>LE</td>
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<td>SUNBURY</td>
<td>500 KV</td>
<td>JUN-SUN</td>
<td>B</td>
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<tr>
<td>LE</td>
<td>PL</td>
<td>PL</td>
<td>SUSQUEHA</td>
<td>500 KV</td>
<td>SUS-WES</td>
<td>A</td>
</tr>
</tbody>
</table>
• Operational Impact
  – Efficient controlling actions
  – Dynamic calculation of the controlling limit based on system topology and resources in the area

• Posted Information