NOTICE

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<td>Figure  196</td>
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<td>SPP 10% wind Penetration, 2006 Profile week of 1/22/2018</td>
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Figure 252: SPP 10% wind Penetration, 2006 Profile week of 12/10/2018

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Section 8  APPENDIX CONTINUED

Section 8.2  Additional Wind and System Generation Characteristics and Scenario Information Part 2

Section 8.2.4.2  Weekly Load, Resource and Wind Charts:

The following charts (Figure 1-Figure 104) provide a weekly analysis of PROMOD output results.

On each page the top chart displays Load, Transactions, and Load net Transaction for the week, dates at the bottom of the chart, the first day of the week is Monday. Transactions that are shown as negative are exports, which is the typical situation for Nebraska. Then, load net transactions are a larger generation obligation than load alone. It is this load net transaction that needs to be met by the generation in the center chart. The center chart shows the resource stack aggregated into 5 categories

- Nuclear (Bottom of chart)
- Base Fossil (2nd on stack): ST Coal, Fixed Energy Resources, Steam Turbine
- Midrange (3rd on stack): Combined Cycle, Combustion Turbine, Existing Hydro, St Gas, ST Oil, St Other
- Peak (4th on stack): CT Gas, CT Oil, CT Other, Internal Combustion, Interruptible Load, and Pumped Storage
- Wind (Top of stack)

Bottom chart plots the actual wind and the dispatched wind. Red color on the chart represents periods of curtailment. Note there are no wind curtailments for Nebraska.

Nebraska seasonal peak and minimum wind energies are shown in Table 25.

Table 25: Nebraska Seasonal Peak and Minimum Energy

<table>
<thead>
<tr>
<th>Weekly Energy</th>
<th>Peak MWH</th>
<th>Week of Year</th>
<th>Start Date</th>
<th>Min MWH</th>
<th>Week of Year</th>
<th>Start Date</th>
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</thead>
<tbody>
<tr>
<td>Season1</td>
<td>126771</td>
<td>49</td>
<td>12/3/2018</td>
<td>82076</td>
<td>7</td>
<td>2/12/2018</td>
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<tr>
<td>Season2</td>
<td>138559</td>
<td>21</td>
<td>5/21/2018</td>
<td>61961</td>
<td>20</td>
<td>5/14/2018</td>
</tr>
<tr>
<td>Season3</td>
<td>90803</td>
<td>24</td>
<td>6/11/2018</td>
<td>47022</td>
<td>26</td>
<td>6/25/2018</td>
</tr>
<tr>
<td>Season4</td>
<td>113732</td>
<td>37</td>
<td>9/10/2018</td>
<td>55662</td>
<td>36</td>
<td>9/3/2018</td>
</tr>
</tbody>
</table>

In general these 104 charts are organized as:

- NPA profiles for the 52 weeks of the 2006 pattern applied in 2018, 10% penetration
- SPP with NPA profiles for the 52 weeks of the 2006 pattern applied in 2018, 10% penetration.
Figure 1: Nebraska 10% wind Penetration, 2006 Profile week of 1/1/2018
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Figure 22: Nebraska 10% wind Penetration, 2006 Profile week of 5/28/2018
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For SPP with Nebraska seasonal peak and minimum wind energies are shown in Table 26.

Table 26: SPP with Nebraska Seasonal Peak and Minimum Energy

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<tr>
<th>Weekly Energy</th>
<th>Peak MWH</th>
<th>Week of Year</th>
<th>Start Date</th>
<th>Min MWH</th>
<th>Weak of Year</th>
<th>Start Date</th>
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<tbody>
<tr>
<td>Season1</td>
<td>776093</td>
<td>2</td>
<td>1/8/2018</td>
<td>464849</td>
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<td>Season2</td>
<td>922523</td>
<td>21</td>
<td>5/21/2018</td>
<td>359033</td>
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<td>5/14/2018</td>
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<td>Season3</td>
<td>785389</td>
<td>24</td>
<td>6/11/2018</td>
<td>359675</td>
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<td>8/20/2018</td>
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<tr>
<td>Season4</td>
<td>780341</td>
<td>40</td>
<td>10/1/2018</td>
<td>403535</td>
<td>36</td>
<td>9/3/2018</td>
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