Load Management Registration Process Review for 2019/2020

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Demand Response Subcommittee
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Load Management Registrations for 2019/2020

• Load Management registration for 2019/2020 ended May 31, 2019

• Review and discuss the registration process – solicit input on enhancements for next year:
  – Duplicate registrations
  – Winter Peak Load for CP and Base registrations – uploads, timing, calculations
  – Seasonal Aggregation
  – Known DR Hub enhancements/bug fixes for next Delivery Year
47 (93 in 2018/2019) unique customers involved in duplicate process

Number of times a customer went through duplicate process:

<table>
<thead>
<tr>
<th>Number of times in Duplicate Review</th>
<th>Number of Customers 2019/2020</th>
<th>Number of Customers 2018/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>47 (75)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0 (11)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0 (6)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0 (1)</td>
<td></td>
</tr>
</tbody>
</table>

Registrations confirmed for year: 13,806 (13,433). with 0.34% (0.69%) involved in duplicate review process

PJM involved in duplicate process – 0 (11) customers which is 0.0% (11.8%) of duplicates
Number of Duplicates Submitted by Week – 2019/2020
Trends

• Number of duplicates much less than last year, no resubmissions
  – No CSPs contacted PJM for help with duplicates
• No duplicates submitted after new registration deadline

What’s different??

• More education on duplicates at DRS and at Load Management registration training
• New processes in place – Terminated-Duplicate status, manual process in place for “Completed” registrations (not triggered this year)
DR Hub calculated Winter Peak Load this year from load data submitted by the CSP.

<table>
<thead>
<tr>
<th></th>
<th>Number of 2019/2020 LM Registrations having a WPL</th>
<th>Registered MW</th>
<th>% of hours submitted used in WPL determinations (Registered MW with any WPL excluded hours)</th>
<th>% of registrations using DY-2 (2017/2018) as WPL base year (Registered MW using DY-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>4,244</td>
<td>3,026</td>
<td>99.43 (107)</td>
<td>99.6 (18)</td>
</tr>
<tr>
<td>CP</td>
<td>794</td>
<td>822</td>
<td>99.62 (18)</td>
<td>97.7 (18)</td>
</tr>
<tr>
<td>Base</td>
<td>3,450</td>
<td>2,204</td>
<td>99.39 (89)</td>
<td>100.0 (0)</td>
</tr>
</tbody>
</table>

Note: Registered MW = Winter Nominated ICAP for CP and Summer Nominated ICAP for Base

Amount of load data needed to calculate WPL up from ~800 to 4,200 location this DY. Volume will go up from 4,200 location to ~12,000 locations next DY (20/21)
First year for Seasonal Aggregation for Capacity Performance registrations

- No Annual ICAP on registration
- RPM Auction Resource nomination calculated by taking the lesser of Summer and Winter ICAP for all registrations attached to the Resource, not for each registration
- Capacity Performance registrations are now one location per registration
DR Hub Fixes/Enhancement for next DY

- Allow locations to be registered with summer only or winter only load reductions
  - Summer ICAP and/or Winter ICAP may have zero value
- Require CSP to link RPM Auction Resource to registration before it is marked “Completed”
- On "Resources Linked to Registrations" Report, change the Committed MW and Nominated Summer and Winter ICAPs decimal places from 2 to 1 so they match Capacity Exchange
- Bug fix: when RPM Auction Resource is selected and “Completed” checkbox is checked and then click Save button, the RPM Auction Resource is changed to blank
Other thoughts and suggestions?