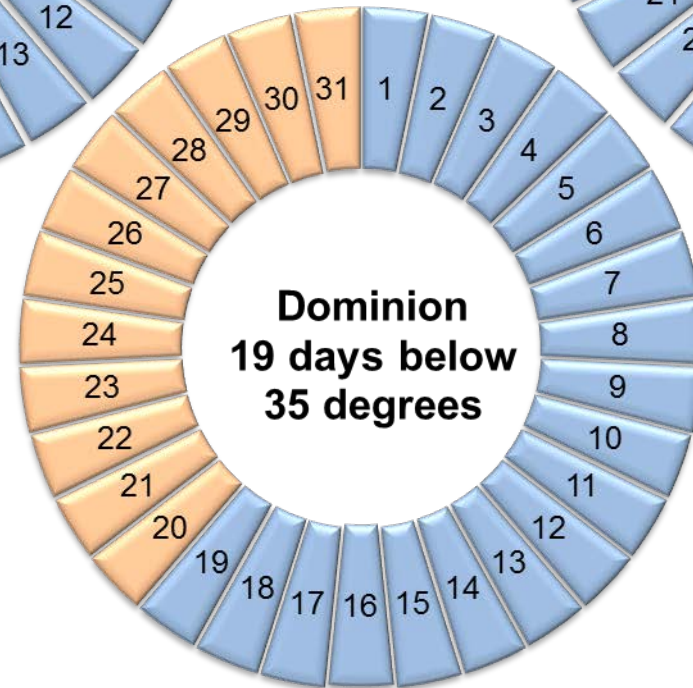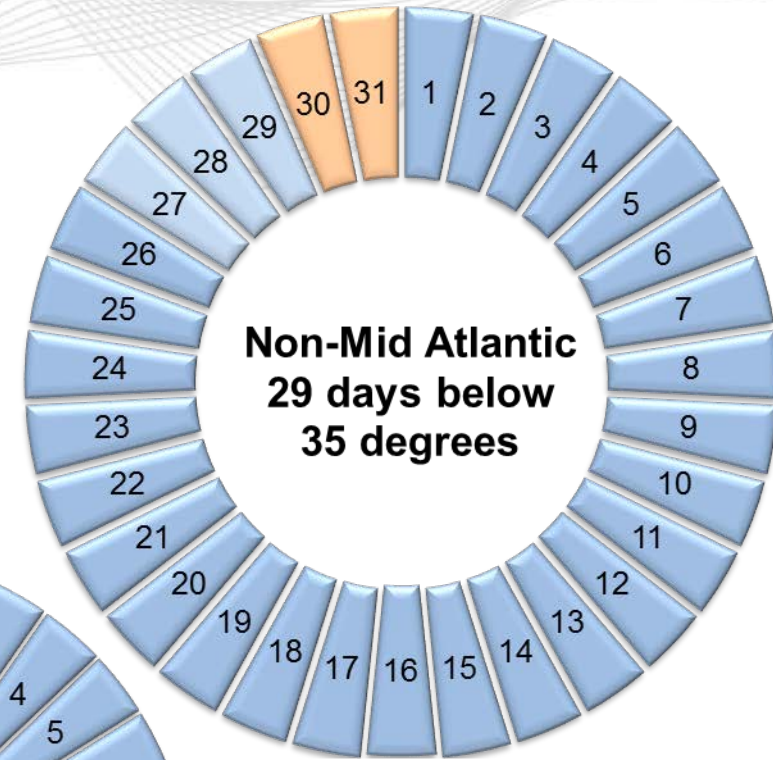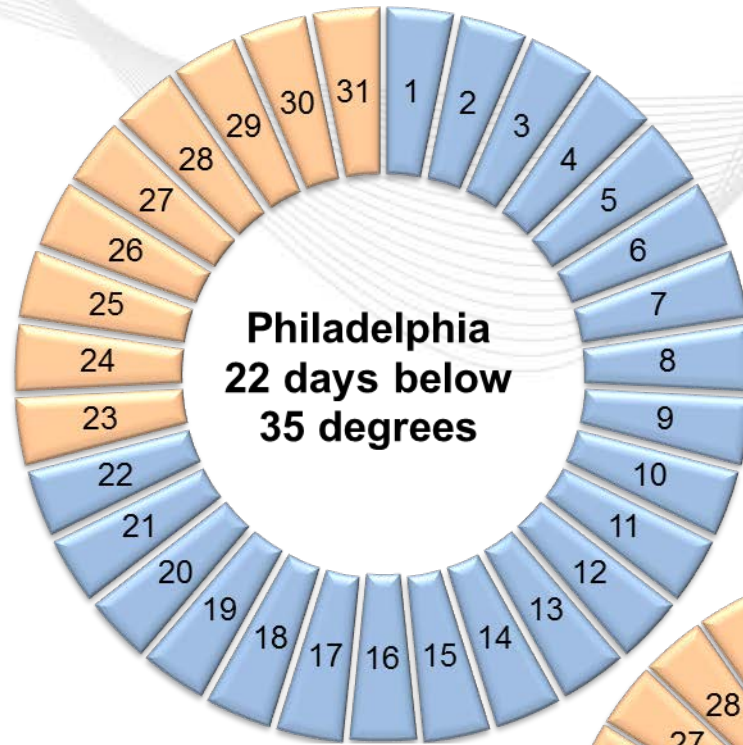# Winter Test Cost Analysis

September 17, 2014

December 2013

Over 50% of December was below 35°F in all regions

71% in Mid-Atlantic,
94% in Non Mid-Atlantic,
61% in Dominion

Philadelphia
22 days below
35 degrees

Non-Mid Atlantic
29 days below
35 degrees

Dominion
19 days below
35 degrees

336 of the 1422 active generation did not operate during the months of October and November 2013

Of the 336, 62% CTs, 33% Steam, 4% Diesels, 1% Hydro

197 of the 336 units submitted outage tickets totaling 14,216.5 MWs

- Resources committed in Day Ahead
- Using the Max, Min and Average LMP for each individual Gen Bus across the min run hours from the PLS and calculated the expected energy payment
- Max cost schedule, resource parameters submitted for the reference month were used in the total cost calculation
- For Dual Fuel Capability resources applicable adder provided by Monitoring Analytics was applied to the max bid price calculation

Energy Revenue = December LMP (for that particular gen bus) * Eco Min * Min Run Time

Total Cost = Max Startup Cost for the month +[(Eco Min * (Eco Min Bid Price + Fuel Adder) +Max No Load Cost for the month) * Min Run Time]

Make Whole = Total Cost - Energy Revenue

$/MWh = (Make Whole $/Real Time Load + Export)/# of days
# of days – Econ Min = 12869.2/1000 = 13
# of days – Econ Max = 20110/1000 = 20

	Low	**Min**	**High**
Make Whole $ (Econ Min)	$5,032,307.33	$11,923,728.30	$14,199,346.57
$/MWh by day	$0.17	$0.39	$0.47
Make Whole $ (Econ Max)	$6,863,107.87	$17,109,251.42	$21,825,298.32
$/MWh by day	$0.15	$0.37	$0.47

- Day Ahead Spot Market Settlements

- Day Operating Reserve – DA load plus exports

- Balancing Spot Market Settlements

- Balancing Operating Reserve Settlements – RT load plus exports

- Resource deviated from the Day Ahead Schedule will be subjected to deviation charges