



# Reserve Certainty Project Spin Activation Basepoint Changes

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Support

Reserve Certainty Sr. Task Force

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When Dispatch declares a spin event today:

- Dispatch issues an All Call
- Two status points are sent to members over ICCP and DNP protocols:
  - Subzone (MAD) spin
  - RTO spin
- Members are instructed to ramp up their units as much as possible
- PJM has non-performance concerns on units response during spin events that it requires for system recovery.

- Dispatchers will now have the option to activate spin events by entering a flat MW amount or a percentage (%) of the total available spin awards.
  - If the dispatcher enters a MW number, the Deployment % becomes:  
$$\text{Deployment \%} = \text{Flat MW amount} / \text{Total}$$
  - Using the Deployment % (either calculated as above or as entered by dispatcher):  
$$\text{Current Unit Output} + (\text{Deployment \%} * \text{Unit Assignment}) = \text{Spin Basepoint}$$

- When the spin event is activated AGC will take a snapshot of all the current generators' output and Markets spin awards. The spin amount (adjusted for any partial deployment) and the current gen output amount will be added to obtain a new spin basepoint sent as their economic basepoint (ECOBP signal via ICCP/DNP link).
- Dispatchers and Members will observe a stepped jump when the basepoint and the spin assignment is added.

- When a subzone (MAD) spin event is activated then just the units in that subzone will have their basepoints updated
- If a subzone spin event is triggered first and then a RTO event is activated: Only the non-subzone units will be updated
  - (RTO – Subzone = Non-Subzone)
- When the spin event is over all basepoints will go back to SCED basepoint values

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## Spin Activation Basepoint Changes



### Member Hotline

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Acronym	Term & Definition
AGC	<b>Automatic Generation Control</b> is equipment that automatically adjusts generation.
DNP	<b>Distributed Network Protocol</b> is a type of communication method to send/receive signals between a remote generation site and a control center.
ICCP	<b>Inter-Control Center Communication Protocol</b> is a type of communication method between two control centers that allows them to share signals.
MAD	A spinning event subzone, also referred to as <b>Mid-Atlantic &amp; Dominion</b>
MW	A <b>Megawatt</b> is a unit of power equaling one million watts (1 MW = 1,000,000 watts) or one thousand kilowatts (1 MW = 1,000 KW). To put it in perspective, under non-severe weather conditions, one MW could power roughly 800 to 1,000 average-sized American homes.
SCED	<b>Security Constrained Economic Dispatch</b> is the optimization engine used to calculate dispatch and reserve assignments and to set prices.

**PROTECT THE  
POWER GRID  
THINK BEFORE  
YOU CLICK!**



Be alert to  
malicious  
phishing emails.

**Report suspicious email activity to PJM.**  
(610) 666-2244 / [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)

