Proposed Package Matrix (Beacon)

Design Component	Proposed Solution Option	Discussion
1 – Signal type	B (Reg A and D are dependently produced so that different classes of resources can supplement each other when needed) & D (Reg A and D are dependently produced to optimize system control)	Maintain 15-min energy neutrality but better utilize RegA/RegD resource benefits
2 - Characteristics	N (Conditional neutrality over 15 minutes)	Maintain 15-min neutrality except in extreme circumstances – **no planned phase-out**
3 – Product type	Status quo (Combined/bi-directional, symmetric)	
4 – Requirement level	B (Regulation limit should be increased proportionally to reflect load that's been added to PJM since original static values were determined. (EKPC))	PJM should re-define requirements to make sure system reliability can be maintained under all allowable combinations of RegA/RegD resources. More RegA to carry more RegD
5 – Static/ dynamic	E (Dynamic regulation requirement, with more regulation procured during hours of historical control challenge)	See comment to 4 above; could develop hourly pattern by month/season
6 – Op characteristics	Status quo (Neutrality, ramp limitation)	Neutrality is the only option for energy limited resources to manage their state of charge in PJM
7 – X-axis	Status quo (% of performance adjusted MW against the requirement)	Could re-evaluate % based on observed system benefits w/o other simultaneous changes
8 – Y-axis	Status quo (Benefits Factor from 2.9 to 0)	Could re-evaluate max BF based on observed system benefits w/o other simultaneous changes

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9 – Static/ dynamic	Status quo (Static; predefined excursion hours)	With high penetration of RegD, PJM operators will have greater certainty regarding raw MW available
10 – Effective MW calc	Status quo (Offer MW * BF * PerfScore; Block (rectangle))	Further changes could complicate/negate other changes
11- Procurement floor	B (Floor at BF = 1)	Don't procure more RegD if not benefit to system
12 – Treatment of SS/$0 offers	Status quo (Self Schedule and $0 offer will be subject to a tie breaker based on performance score for BF assignment)	
13 – LOC sched.	Status quo (Cheapest of price or most expensive of cost schedule)	Not a factor contributing to current issues
14 – Qual. testing	Status quo	Not a factor contributing to current issues
15 – Type specific test/score	Status quo (None)	Not a factor contributing to current issues
16 – Perf score comp/weight	Status quo (Units measured on a composite performance score = 1/3 accuracy + 1/3 delay + 1/3 precision (deviation))	Not a factor contributing to current issues

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17 – Min part.	Status quo (Maintain a 40% historic performance score (average across last 100 operating hours))	Not a factor contributing to current issues
18 – Min price	Status quo (None)	Not a factor contributing to current issues
18A – Change in cleared commit - PS	Status quo (Self de-selection does not have an impact on performance score)	Not a factor contributing to current issues
19 – Subst. factor	Status quo (Mileage ratio is applied to the performance credit)	Not a factor contributing to current issues; use of Benefits Factor does not comply with Order 755
20 – Settlement components	Status quo (5-minute pricing, hourly settlement)	Not a factor contributing to current issues
21 - Mileage	Status quo (All movement regardless of direction (same or opposite direction of ACE))	Not a factor contributing to current issues
22 – Offer components	Status quo (Performance and Capability)	Not a factor contributing to current issues
23 – Clearing timing	Status quo (30 minutes before, one hour commitments)	Not a factor contributing to current issues
24 – Commit process	Status quo (None)	Not a factor contributing to current issues