



# Load Management & PRD Testing Requirements

MRC

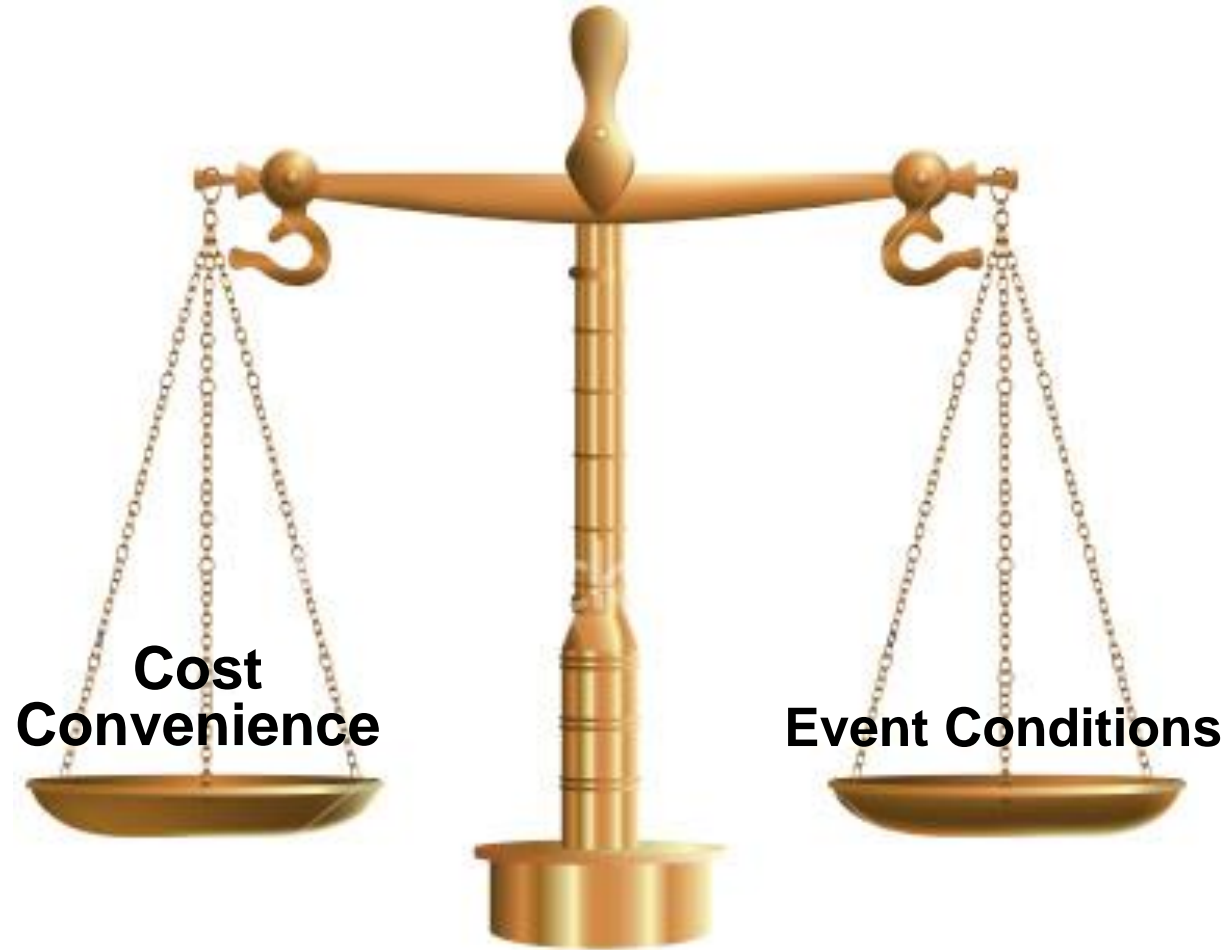
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Pete Langbein

- Test only required if customer was not deployed for Emergency conditions
- CSP/PRD provider determines when to test
- Summer only
- 1 hour
- Unlimited Test and Re-Test (if zonal compliance is  $>75\%$  then customers that did not perform can be retested to improve score)
- Customer performance aggregated by zone
- No direct way to receive energy market compensation during test

- Tests do not reflect event conditions
  - Much easier to perform during a test than an event because customer is notified of the test hour well in advance plus have unlimited “Do-Overs”.
- Test requirement developed based on outdated Limited DR availability requirements:
  - Limited DR was replaced with CP
    - Limited only required for 10 days for 6 hours per day during the summer months
    - CP requires DR to be available on annual basis for up to 15 hours per day
- Mandatory Load Management has not been dispatched in over 5 years (but accounts for > 5% of overall capacity)
  - Low Frequency, High Impact event – critical to perform when needed

Load reduction capability under variety of conditions is not known



Known test time  
in advance,  
easy to prepare

Less-  
notification,  
similar to an  
event

Actual events are not very predictable and require CSPs to be ready for events that do not occur.  
All proposals minimize “Get ready to test but cancel” because of cost/inconvenience

- Consensus on most of the key components:
  - PJM directed 2 hour test in summer and winter seasons
    - Test period on weekdays 11am to 6pm
  - Ability to retest if there is an unforeseen issue
  - Compensation in energy market based on RT LMP
  - Implementation date for 23/24 Delivery Year

PJM proposal received 75% support at MIC  
CSP2 received 53% and 3 other proposals received < 50%

	CSP2	PJM1a
Test/Retest period	Narrow test window 3 months per season (6 per year)	Wide test window 5 months per season (10 per year)
Test event limit (number of times test may be performed)	Two (90 days to notify PJM)	One
Retest qualification	Status Quo. If performance <75% then CSP can do one additional test of all registrations. If second test score >75% then can retest under status quo conditions.	Status Quo but if performance is <75% can do one retest of subset of registrations that performed <100% (end of next month to notify PJM).
Notification time prior to test	Same as PJM1a except adds Week-ahead notification to other notifications: PJM provides each CSP with a 5-day test window at least 5 business days in advance (i.e. in advance of 1st potential test day)	1 Month ahead (by the 21st of prior month) and 1 day ahead (by 10am) and registered lead time on test day.
Resource Test Compliance Target	Summer average RPM commitment for summer test. Non-Summer average RPM commitment for Non-Summer test.	Status Quo – Summer average RPM commitment.



## Load Management Testing Requirements - Work Plan (2019-2020)

Detailed Work Plan	Feb (2019)	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan (2020)	Feb
Provide Education - DRS	27th	28th											
Document Interests - DRS	27th	28th											
Develop Components - DRS		28th	24th										
Develop Component Options - DRS		28th	24th	28th	19th								
Develop Packages - DRS				28th	19th								
Build Consensus				28th	19th	23rd	13th	5th	2nd				
DRS Vote						23rd							
First Read @ MIC							7th						
Vote @ MIC								11th					
First Read @ MRC								26th					
Vote @ MRC									31st				
Vote @ MC										No MC Mtg	5th		
PJM Board												No Board Mtg	x
FERC Filing													x
New rules effective												<b>2023/2024 Delivery Year</b>	



- Test Event Compliance
  - RAA
    - Schedule 6 PROCEDURES FOR DEMAND RESOURCES AND ENERGY EFFICIENCY, Sections H and K
    - Schedule 6.1 PRICE RESPONSIVE DEMAND
  - OATT Attachment DD.11A, DEMAND RESOURCES TEST FAILURE CHARGE
  - OA Schedule 1, Section 8.9, Reporting and Compliance
  - PJM Manual 18, PJM Capacity Market, Section 8.8 Load Management Test Compliance
  - M01, Section 1.9 Other PJM Tools (Power Meter, InSchedule, eLRS, FTR Center) - polling requirement for Test/Re-test Events via web services
- Test Event Energy Settlements
  - PJM Manual 28: Operating Agreement Accounting, Section 11: PJM Load Response Programs Accounting
  - PJM Manual 11: Energy & Ancillary Services Market Operations, Section 10: Overview of the Demand Resource Participation