



# System Operations Subcommittee Update

Kevin Hatch  
Sr, Manager, Dispatch  
Operating Committee  
September 12, 2024

- PJM SOS Summary
  - August Events: 7 Shared Reserve Events
  - 16 PCLLRW Events
  - 1 Maximum Generation Emergency/Load Management Alert
  - 6 Hot Weather Alert Events
  - 3 Synchronized Reserve Events
  - 5 Geomagnetic Disturbance Warning
  - 2 Special Notice Events [Voltage Reduction Action Tests]

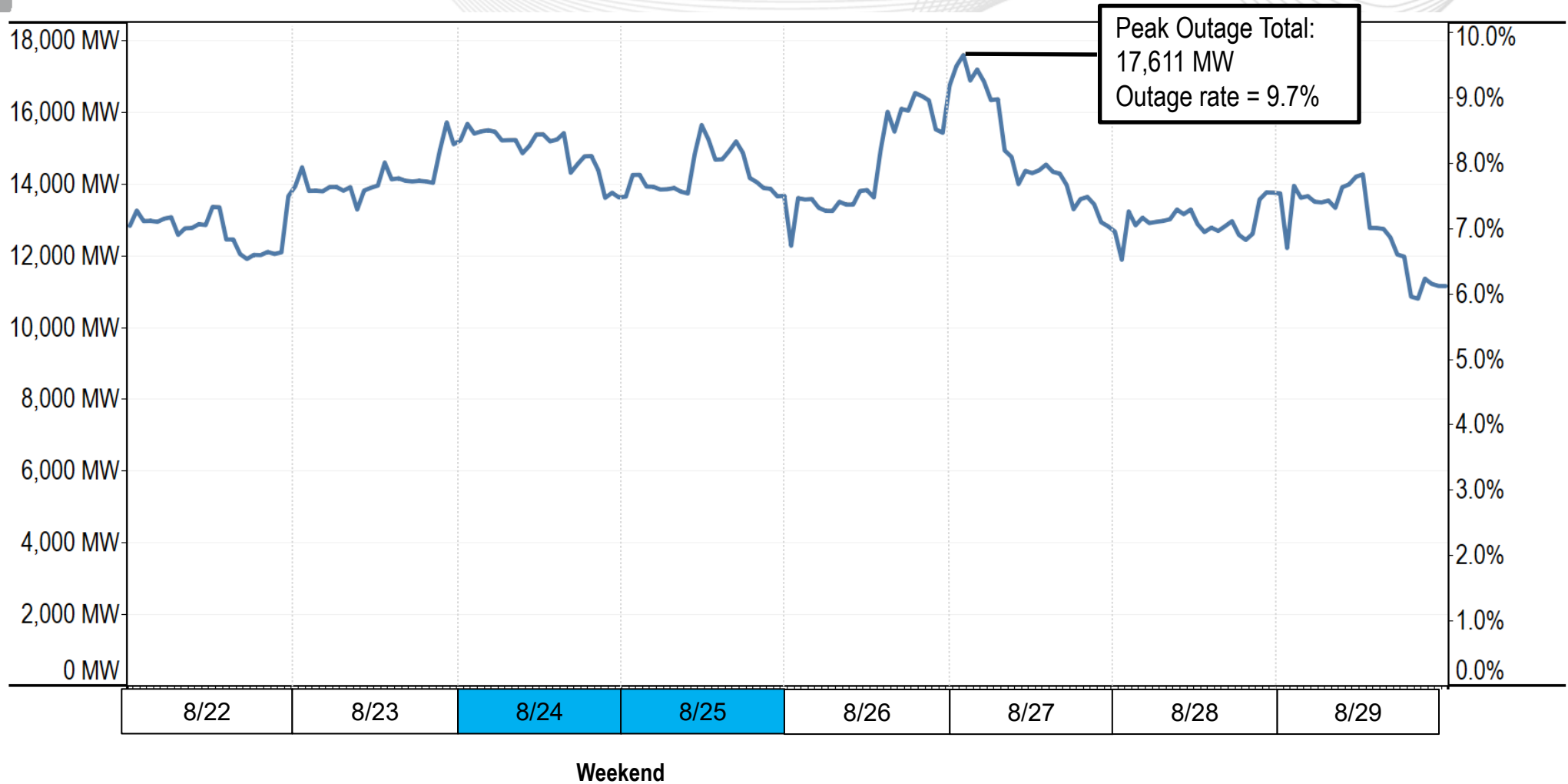
- Update on standards & compliance. Review of PJMs approach for EOP-001-4 R7
- Update on latest and upcoming eDART release
- Update on latest DTS meeting
- Review of first read for M3A Rev 25
- Review of communication protocols in M01 in accordance with COM-002-4

- Security Briefing
- Reliability Compliance update
- First read Manual 03A

- Reviewed IROL load shed drill results
- Discussed August Operational events
- Reviewed voltage reduction test results

- Increased Generation outages
  - Outage rate = 9.7%
- Increased load forecast
- Proactive advanced notification to neighbors that interchange may have to be curtailed

# August Outages – Forced and Maintenance





# Voltage Reduction Action Test

August 2024



## Parameters

**Seasons**

Summer Voltage Reduction Test

**Load Level**

Above Seasonal Upper Quartile

**Duration**

30 minutes

**Time**

14:00 – 14:30 Eastern Time

**Zones**

Mid-Atlantic August 14<sup>th</sup>

Western Region & South – August 15<sup>th</sup>

**Voltage Reduction Step 1**

5% (ANSI-A Limit; full equipment performance)

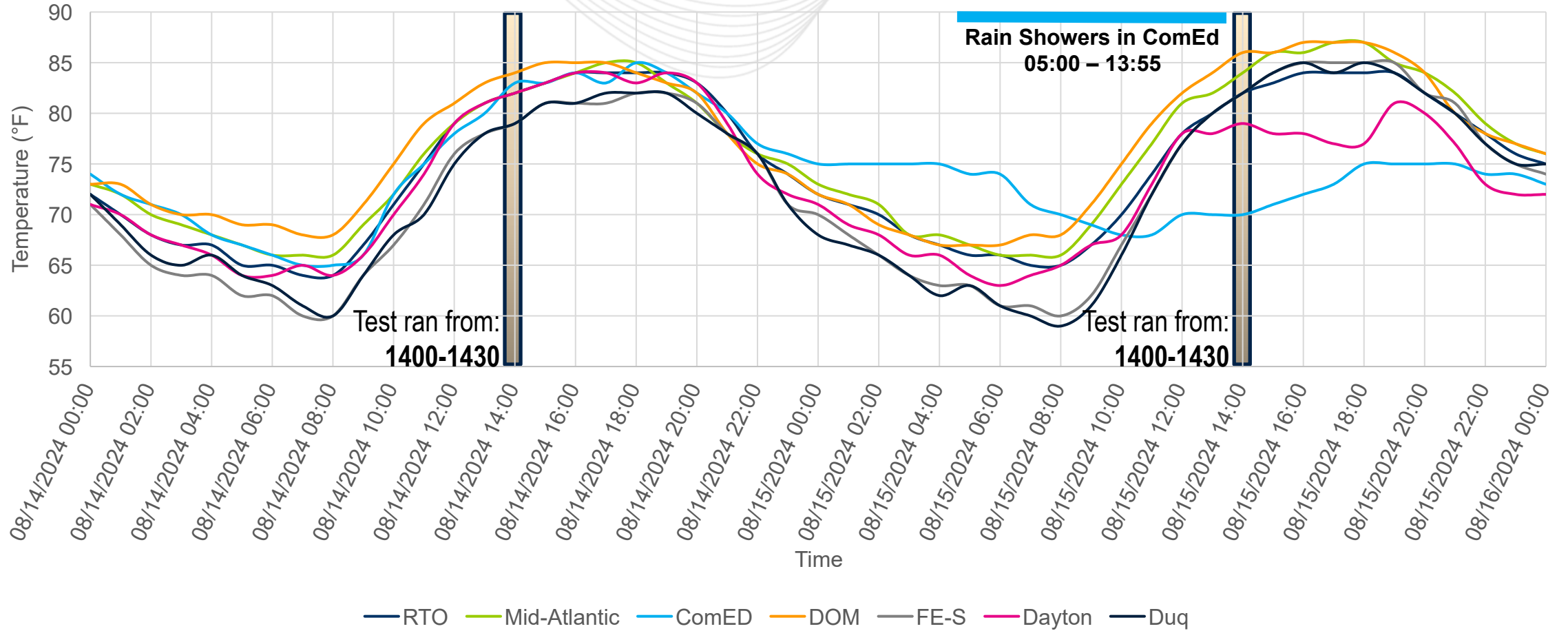
**Alternate Date**

*August 28<sup>th</sup> & 29<sup>th</sup>*

**Go / No-Go Criteria**

Capacity or Transmission Emergency Procedures including Hot Weather Alert, GMD Warning or Action, and extreme weather.

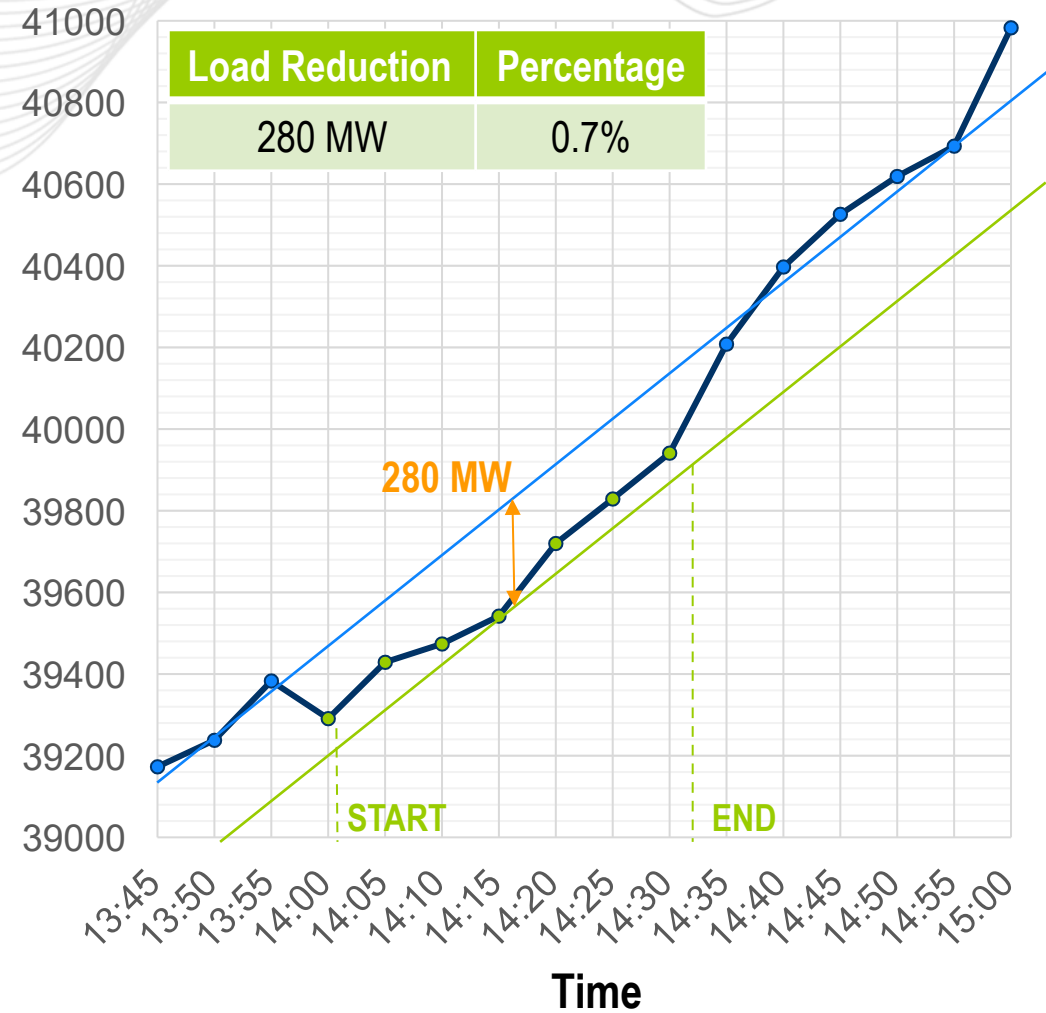
### Average Temperatures Across RTO



Expected Load Reduction	Percentage
635 MW	1.6%

Transmission Owner	PJM Manual [%]	13:55		14:50		Average
		Load	Expected Relief	Load	Expected Relief	
AE	2	1628	33	1738	35	34
DPL	2	2712	54	2839	57	56
PECO	1	5846	58	6004	60	59
PPL	2	5800	116	5818	116	116
FE JC	1	3600	36	3805	38	37
FE ME	1	2271	23	2316	23	23
FE PN	1	2240	22	2232	22	22
BGE	3	4366	131	4570	137	134
PEPCO	2	4012	80	4116	82	81
PSEG	1	6472	65	6703	67	66
RECO	2	263	5	279	6	5
UGI	1	131	1	134	1	1
<b>Total</b>		<b>39341</b>	<b>625</b>	<b>40554</b>	<b>645</b>	<b>635</b>

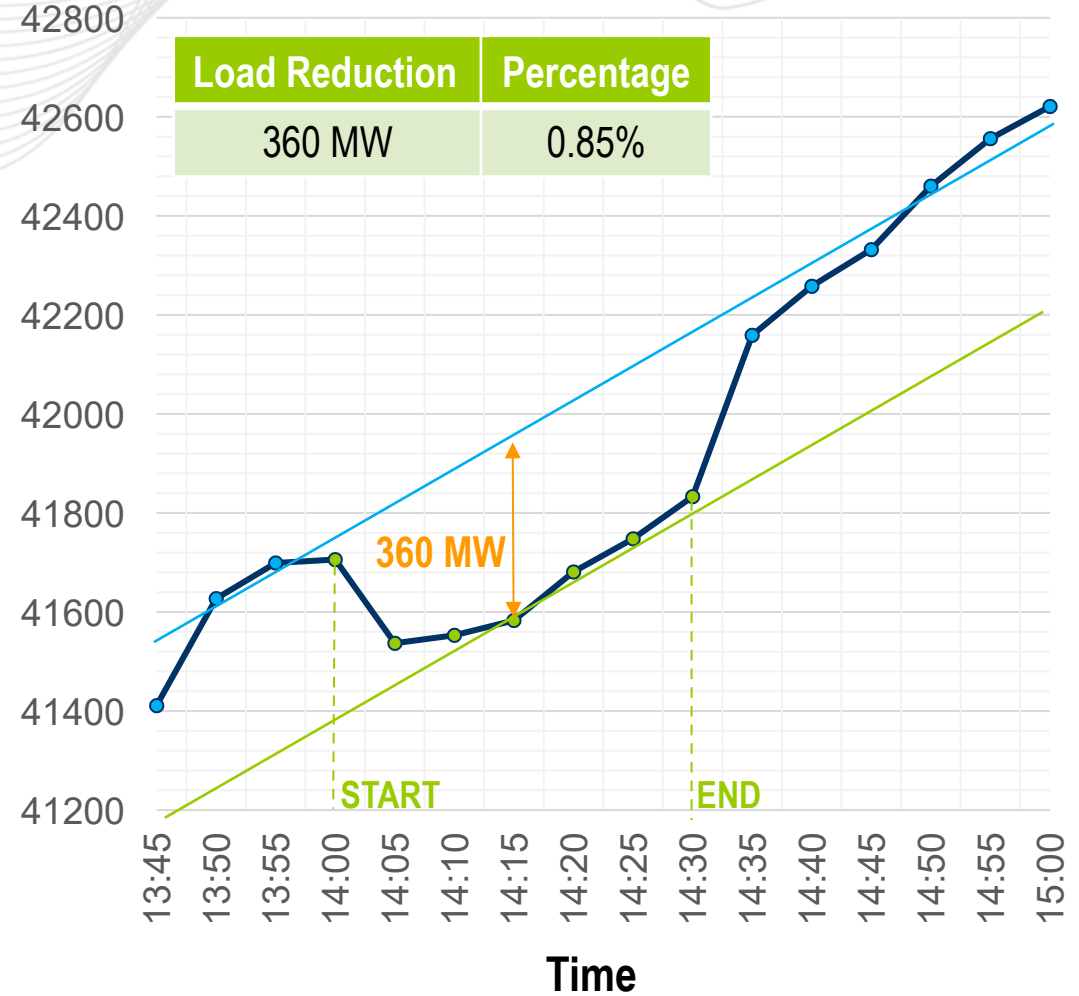
Load [MW]



Expected Load Reduction	Percentage
920 MW	2.2%

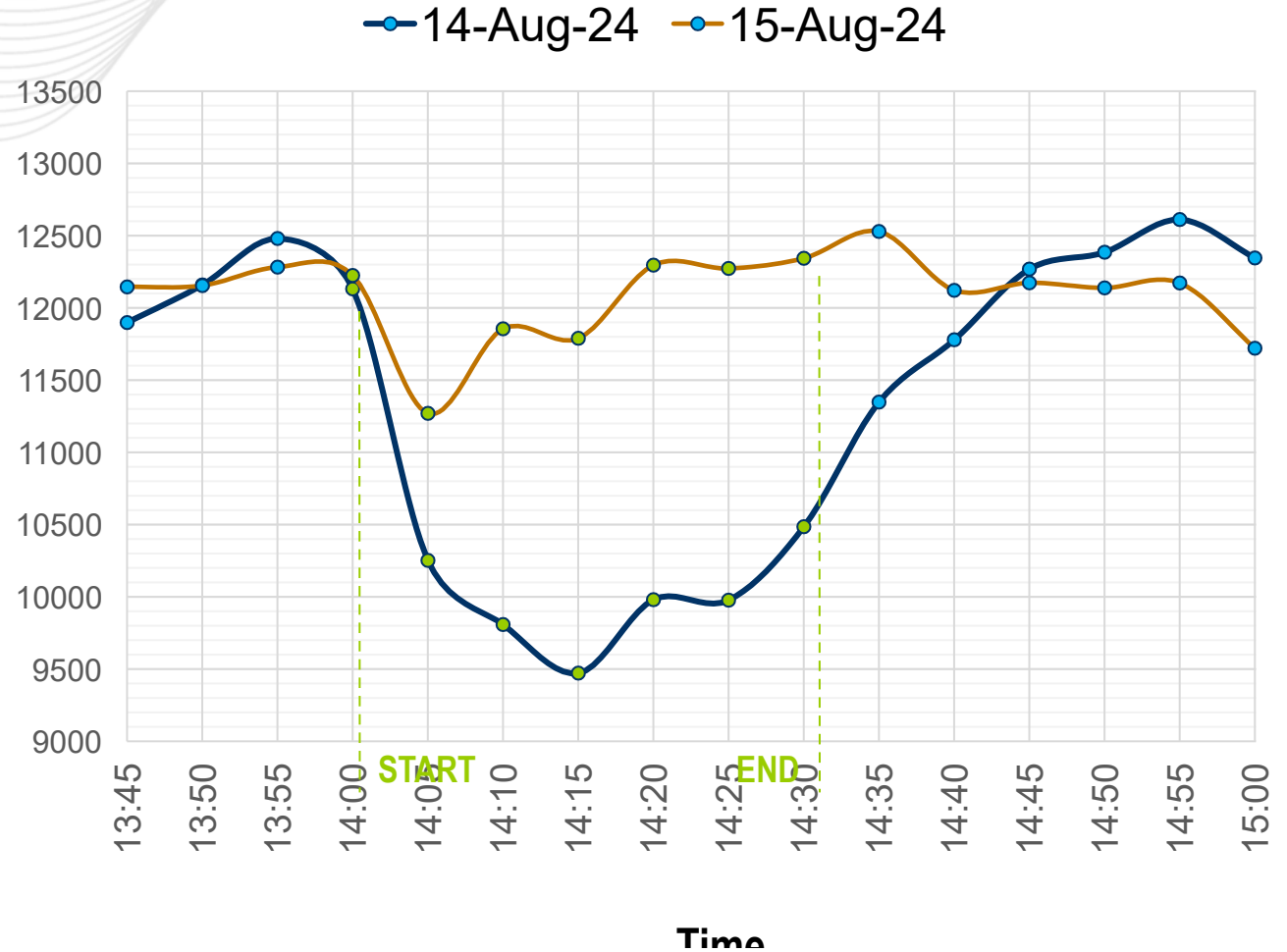
Transmission Owner	PJM Manual [%]	13:55		14:50		Average
		Load	Expected Relief	Load	Expected Relief	
APS	1.7	6969	118	7086	120	119
COMED	3.0	12655	380	12773	383	381
DAYTON	1.0	2470	25	2477	25	25
DOM	2.0	17616	352	18047	361	357
DUQ	2.0	2001	40	2071	41	41
<b>Total</b>		<b>41699</b>	<b>915</b>	<b>42460</b>	<b>931</b>	<b>923</b>

Load [MW]



## RTO Generator Reactive Output

- RTO showed a reduction of generator MVAR output
  - Reduced 3,150 MVARs during Mid-Atlantic test
  - Reduced 1,300 MVARs during Western Region and South test
- Drill validated importance of increasing lagging MVAR reserves to enhance transfer capability.



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