Reactive Capability and Voltage Schedule Verifications

Darrell Frogg
Sr. Lead Engineer,
Generation Department

System Operations Subcommittee

April 1, 2026

PJM © 2026

Stakeholder Action Request

Action Required	Deadline	Who May Be Affected
GOs verify current reactive capabilities	4/1 – 4/30	Generation Owners
TOs verify current voltage schedules	4/1 – 4/30	Transmission Owners
GOs verify current voltage schedules	5/1 – 5/31	Generation Owners
TOs verify current reactive capabilities	5/1 – 5/31	Transmission Owners

PJM © 2026

PJM 2026 Seasonal Reactive Capability Review

PJM © 2026

eDART Reactive Capability - Seasonal Review

- The eDART Reactive Capability Seasonal Review function allows PJM to initiate a review of all applicable d-curves twice a year.
- The 2026 Spring Seasonal Reactive Capability Review will be initiated on April 1, 2026, and will remain open through May 31, 2026.
  - GO Review Phase (April 1 – April 30, 2026): GOs to review and acknowledge accuracy of all active reactive values and submit updates where necessary.
  - TO Review Phase (May 1 – May 31, 2026): TOs to review and acknowledge awareness of all active reactive values and ensure their application in the respective TOs real time tools and analysis.
- This function also allows tracking of the GO and TO acknowledgements for each active generating facility reviewed during the process.

PJM © 2026

GO Review Phase – Steps for Review

D-Curve Unit Acknowledgement Form

Company [redacted] Generation, LLC

Initiate Timestamp: 09/28/2020 10:02 **Completed Timestamp:** Ongoing **Review Type:** Generation

Unit Name	Unit Type	Installed Capacity	D-Curve Metered MVAR Location	Power System Stabilizer	EMS Equipment Name	MW Point	MVAR Min	MVAR Max	User ID	Last Update Timestamp	Acknowledge	Overwrite	Latest Completed Default MVAR Ticket
[redacted]	Steam/Fossil	380	Low-side Gross	No	[redacted] GEN UNIT	50 120 180 230 280 350 400 401	-174 -173 -171 -169 -166 -160 -155 -140	195.3 195 194 193 189 180 169 155			☐		

- Check the Acknowledge box that has been verified for each relevant reactive resource
  - ➢ Click the Submit Form button

D-Curve Unit Acknowledgement Help

How to Acknowledge, Un-Acknowledge and Overwrite Timestamps for D-Curve Review

To Acknowledge a Unit, check "Acknowledge" box

Acknowledge ☑

To update the "Acknowledge Timestamp" to the current time, check "Acknowledge" and "Overwrite" boxes

Acknowledge Timestamp	Acknowledge	Overwrite
01/01/2015 00:00	☑	☑

To Un-Acknowledge, uncheck "Acknowledge" box. Please note that un-acknowledging a unit's D-Curve will cause that unit's row to turn yellow

Acknowledge ☐

Close Window

PJM © 2026

TO Review Phase – Steps for Review

D-Curve Unit Acknowledgement Form

Company [redacted]

Initiate Timestamp: 11/01/2022 08:45 **Completed Timestamp:** Ongoing **Review Type:** Transmission

Unit Name	Unit Type	Installed Capacity	D-Curve Metered MVAR Location	Power System Stabilizer	EMS Equipment Name	MW Point	MVAR Min	MVAR Max	User ID	Last Update Timestamp	Acknowledge	Overwrite	Latest Completed Default MVAR Ticket
[redacted]	[redacted]	100	Low-side Gross	No	[redacted] GEN UNIT	0 2 10 20 45 65 85 98	0 -19 -35 -44 -50 -50 -48	0 24 39 45 46.5 45 28			☐		[redacted]

- Check the Acknowledge box that has been verified for each relevant reactive resource
  - ➢ Click the Submit Form button

Submit Form | Select All / None | Color Legend | Main Menu | Download | Help

D-Curve Unit Acknowledgement Help

How to Acknowledge, Un-Acknowledge and Overwrite Timestamps for D-Curve Review

To Acknowledge a Unit, check "Acknowledge" box

Acknowledge ☑

To update the "Acknowledge Timestamp" to the current time, check "Acknowledge" and "Overwrite" boxes

Acknowledge Timestamp	Acknowledge	Overwrite
01/01/2015 00:00	☑	☑

To Un-Acknowledge, uncheck "Acknowledge" box. Please note that un-acknowledging a unit's D-Curve will cause that unit's row to turn yellow

Acknowledge ☐

Close Window

PJM © 2026

PJM 2026 Annual Voltage Schedule Review

PJM © 2026

eDART Voltage Schedules - Annual Review

- The eDART Voltage Schedule Annual Review function allows PJM to initiate a review of all applicable voltage schedules once a year.
- The 2026 Annual Voltage Schedule review will be initiated on April 1, 2026, and will remain open through May 31, 2026.
  - TO Review Phase (April 1 – April 30, 2026): TOs to review and acknowledge accuracy of all active voltage schedules and submit updates where necessary.
  - GO Review Phase (May 1 – May 31, 2026): GOs to review and acknowledge awareness of all active voltage schedules and ensure their application in the respective generating facilities.
- This function also allows tracking of the TO and GO acknowledgements for each active voltage schedule reviewed during the process.

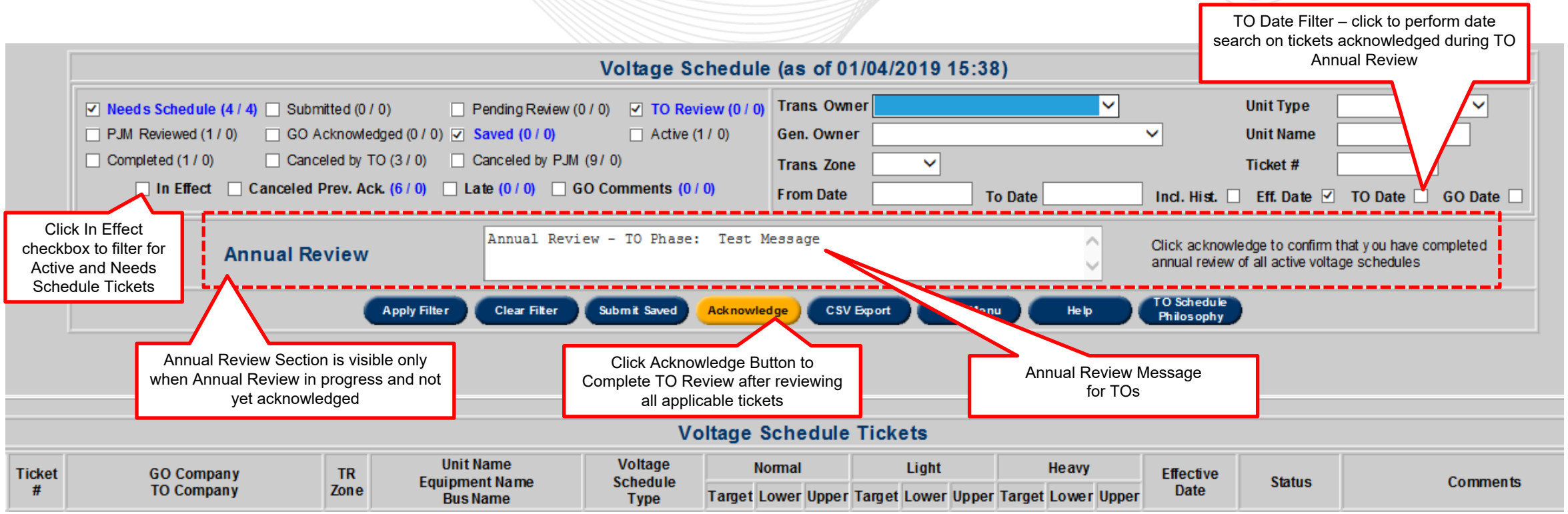
PJM © 2026

TO Review Phase – Steps for Annual Review

- Click the *In Effect* filter option to select only *Active* and *Needs Schedule* tickets in the TO's zone.
  - *Active* tickets indicate generator voltage schedules that have been fully processed (i.e., TO submitted, PJM Reviewed, and GO Acknowledged) and are currently in effect. These should be reviewed for accuracy by the TO.
  - *Needs Schedule* tickets indicate:
    - Generators without submitted TO voltage schedules. TOs need to submit voltage schedules for these generators.
    - Generators with already submitted TO voltage schedules that have not yet been fully processed (i.e., not yet GO Acknowledged or Active). These do not require any further action by the TO.
- Click orange Acknowledge button to complete annual review.

PJM © 2026

TO Review Phase – eDART TO View



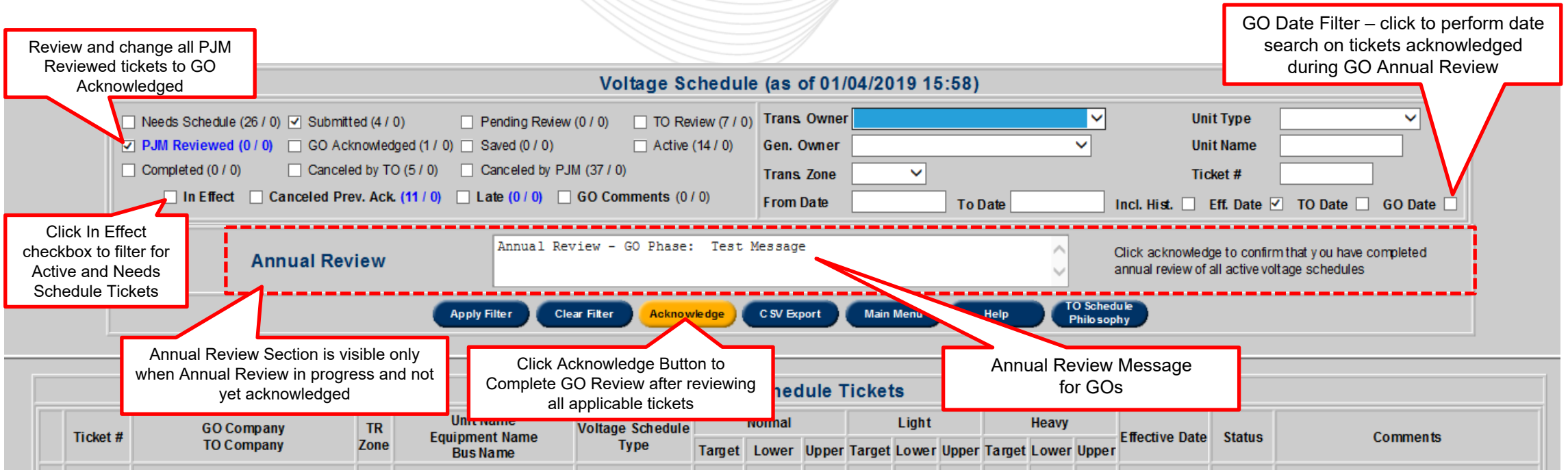
PJM © 2026

GO Review Phase – Steps for Annual Review

- GO View defaults to PJM Reviewed filtered tickets. Any tickets in this status need to be reviewed by the GO, and GO Acknowledged after implementing at the respective generators.
- Click *In Effect* filter to select only *Active* and *Needs Schedule* tickets.
  - *Active* tickets indicate generator voltage schedules that have been fully processed (i.e., TO Submitted, PJM Reviewed, and GO Acknowledged) and are currently in effect. These need to be reviewed by the GO to ensure accurate implementation at the respective generators.
  - *Needs Schedule* tickets indicate generators without submitted voltage schedules, or generators with submitted voltage schedules that have not yet been fully processed (i.e., not yet GO Acknowledged or Active). These do not require any action by the GO.
- Click orange Acknowledge button to complete annual review.

PJM © 2026

GO Review Phase – eDART GO View



PJM © 2026

Key Takeaways

1	2	3
• **Generation Owner Actions** • Verify reactive capabilities 4/1 – 4/30 • Verify voltage schedules 5/1 – 5/31	• **Transmission Owner Actions** • Verify voltage schedules 4/1 – 4/30 • Verify reactive capabilities 5/1 – 5/31	• **Participation should be 100% from both GOs and TOs.** • Reach out to ReactiveTesting@pjm.com or VoltageSchedules@pjm.com

PJM © 2026

Contact

SME/Presenter:
Darrell Frogg
Darrell.Frogg@pjm.com

Reactive Capability Questions:
ReactiveTesting@pjm.com

Voltage Schedule Questions:
VoltageSchedules@pjm.com

Reactive Capability and Voltage Schedule Verifications

Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

PJM © 2026

PROTECT THE POWER GRID

THINK BEFORE YOU CLICK!

pjm

BE ALERT TO MALICIOUS PHISHING EMAILS

Report suspicious email activity to PJM.

Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com

PJM © 2026