

Reactive Reserve Check (RRC) Refresh Updates

System Operations Subcommittee –
Transmission

08/03/2017

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- Phase 1a (9/28 release):
 - Availability of RRC Self-Check download.
- Phase 1b (Q4 2016):
 - Availability of RRC Self-Check data; updated every 5 minutes.
- Phase 2 – 2017 (7/26 release):
 - Ability for PJM to issue new RRC.
 - Functionality to retrieve/submit real time reserve values.
 - Parallel Operations* with current RRC; issued concurrently.

* Anticipated to remain in Parallel Ops until ICCP implementation, ~ Q4 2017.

- When New RRC is issued, the RRC Self Check button is replaced with Submit RRC button.
- User can acknowledge reserve values displayed.
 - Click Submit.
- User can enter reserve values and acknowledge submissions.



MVAR Reserve Check Company Data

Company: Request ID: 725
User Name:

Request Timestamp: 07/31/2017 12:05
Posted Timestamp:
Data Updated: 07/31/2017 12:05

Peak MVAR Reserve Totals

Company	Capacitors			Reactors			SVCs/Statcom			Units/Condensers	PJM Note	Company Response
	PJM Values	Company Adj. Values	Unackn.	PJM Values	Company Adj. Values	Unackn.	PJM Values	Company Adj. Values	Unackn.	PJM Values		
	426.85	426.85								1842.54		
	4	0 of 4	4 of 4							49		

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers
 All
 Unacknowledged Only
 Adjusted Values Only

Name:

Min KV:

Max KV:

SE Status:

Discrepancies Only:

Acknowledge Type:

Capacitors (1-4 of 4)

1	2	3													
Company	Station/Equipment Name	Zone	KV	eDART Availability	SE Status	SE KV	SE MVAR	Rated MVAR			Lagging Reserve MVAR			Acknowledge Type	Override ICCP
								PJM	Company	Delta	PJM	Company	Delta		
			13	Y	Offline	13.70	0.00	5.40	<input type="text"/>		5.40				
			13	Y	In-Service	13.87	5.45	5.45	<input type="text"/>		0.00				
			115	Y	Offline	113.77	0.00	60.00	<input type="text"/>		60.00				
			230	Y	Offline	233.16	0.00	356.00	<input type="text"/>		356.00				

Capacitors (1-4 of 4)

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Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers

All
 Unacknowledged Only
 Adjusted Values Only

Name:
 Min KV:
 Max KV:
 SE Status:

Discrepancies Only:
 Acknowledge Type:

Capacitors (1-4 of 4)

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Equipment can be filtered by type, name, voltage and SE status.

- PJM can include notes to all and/or specific TOs.
- User can add note to PJM.

Enter reserve values as needed.

MVAR Reserve Check Company Data

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 User Name: Posted Timestamp: Data Updated: 07/31/2017 12:05

Peak MVAR Reserve Totals

Company	Capacitors			Reactors			SVCs/Statcom			Units/Condensers		PJM Note	Company Response
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		1 of 4	0 of 4							49			

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers
 All
 Unacknowledged Only
 Adjusted Values Only

Name: Min KV: Max KV: SE Status:

Discrepancies Only: Acknowledge Type:

Capacitors (1-4 of 4)

Company	Station/Equipment Name	Zone	KV	eDART Availability	SE Status	SE KV	SE MVAR	Rated MVAR			Lagging Reserve MVAR			Acknowledge Type	Override ICCP
								PJM	Company	Delta	PJM	Company	Delta		
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Clicking Submit acknowledges reserve values: company entered or PJM values.

ICCP values retrieved when RRC issued. User can override ICCP values if needed.

- I → ICCP: reserve values from ICCP data.
- X → XML: RRCRevise upload.
- U → UI: web UI.

New Reactive Reserve Check

Submit RRC

RRC Report Search

RRC Report Search

Company: User Name:

Request Number:

From Date: To Date:
(MM/DD/YY) (MM/DD/YY)

Last 30 Days:

Apply Filter

Most Recent

Main Menu

RRC Report

Company: User Name:

Report ID	Request Timestamp	Posted Timestamp
728	07/31/2017 18:09	
727	07/31/2017 16:10	07/31/2017 17:05
726	07/31/2017 14:09	07/31/2017 15:10
725	07/31/2017 12:05	07/31/2017 13:09
724	07/31/2017 10:05	07/31/2017 11:04
723	07/31/2017 08:04	07/31/2017 09:04

MVAR Reserve Check Company Data

Company: Request Timestamp: 07/31/2017 12:05
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Peak MVAR Reserve Totals

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	426.85	426.45								1842.54				
	4	1 of 4	0 of 4							49				

Capacitors Reactors SVCs/Statcom Units/Condensers

All Unacknowledged Only Adjusted Values Only

Name: Min KV: Max KV: SE Status: Both

Discrepancies Only: Acknowledge Type: All

Refresh

Main Menu

Help

Color Legend

Capacitors (1-4 of 4)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Company	Station/Equipment Name	Zone	KV	eDART Availability	SE Status	SE KV	SE MVAR	Rated MVAR			Lagging Reserve MVAR			Acknowledge Type	Override ICCP
								PJM	Company	Delta	PJM	Company	Delta		
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Capacitors (1-4 of 4)

Submit

Refresh

Main Menu

Help

- TOs can submit New RRC data via ICCP for the following measurements:

Measurement
Capacitor Rated MVAR
Reactor Rated MVAR
SVC/STATCOM High MVAR Limit
SVC/STATCOM Low MVAR Limit

- If you are interested in submitting the data via ICCP, please ask your telemetry group to reach out to PJMTelemetrySupport@pjm.com

- TOs should provide the following to PJM Telemetry Support Group if they want to send RRC data via ICCP:
 - ICCP Object ID
 - Equipment Name
 - Measurement Description
- PJM can also provide the TO with a list of all Capacitors/Reactors, SVCs and STATCOMs modeled in PJM's EMS.

Questions? Contact RRCHelp@pjm.com