



Reactive Reserve Application



Functionality Outline

- Reactive Reserve is mostly a function for Transmission Companies.
- Divided into two parts:
 - RRC Reporting – Transmission Owner (TO) data entry only based on Generation Owner (GO) Input.
 - D-Curve Review Process – GO and TO Review Process.



RRC Process

- PJM requests Transmission Companies gather RRC data for units in their Transmission Zone.
- Transmission Companies gather data and report results in RRC Request form.
- PJM Summarizes and Posts data.



- Only once PJM has called for a RRC will the submit RRC button be visible.
- TO clicks submit RRC button to enter RRC data.

RRC Company Data

Company: _____

Request ID: _____ Request Timestamp: _____

User Name: _____ Posted Timestamp: _____

CZ Name	Spinning	Quick Start	Capacitor / Reactor
AEP	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
AP	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
CE	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
DAY	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
DLCO	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
DOM	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
PJMCZ	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

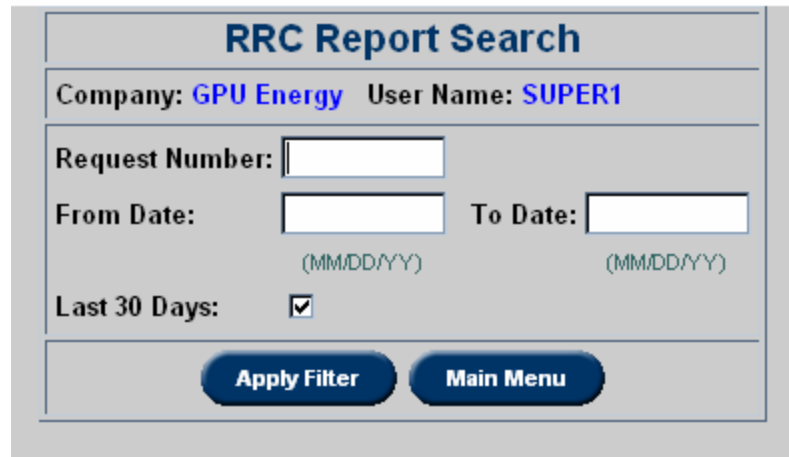
- TO will then gather Spinning data from GOs in their zone.
- TO will also calculate capacitor/Reactor values.
- The totals by Control Zone will be entered using this form.
- Upcoming changes in eDART to match manual 14D.
 - Quickstart to be removed (no longer used).
 - Spinning to be renamed Unit MVAR Reserve.
 - New field Condensators/SVCs to be added.

RRC Company Data

Your RRC submission has been successfully received by PJM.
Thank you for your participation in the RRC.

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- After submitting data user will receive validation that the data they entered was received by PJM.
- PJM then summarizes TO inputs by Control Zone, ASM, Reliability Council and RTO.
- PJM then reviews all numbers and Posts totals.



The screenshot shows a web form titled "RRC Report Search". At the top, it displays "Company: GPU Energy" and "User Name: SUPER1". Below this, there are three input fields: "Request Number:" followed by an empty text box; "From Date:" followed by an empty date box with "(MM/DD/YY)" below it; and "To Date:" followed by an empty date box with "(MM/DD/YY)" below it. A "Last 30 Days:" label is followed by a checked checkbox. At the bottom of the form are two buttons: "Apply Filter" and "Main Menu".

- Totals of completed and posted RRC are available through the Report Search from the Main Menu.
- The Report is filterable by RRC Number and Date.
- By default RRCs called within last 30 days will be displayed. This can be bypassed by un-clicking the checkbox.

RRC Report					
Company: GPU Energy User Name: SUPER1					
Report ID	Report Timestamp	Posted Timestamp	Spinning	Quick Start	Capacitor / Reactor
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100
32	01/31/2007 11:42	01/31/2007 11:46	100	0	100

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- Posted summations represent PJM RTO totals.
- Please also make note of upcoming changes noted on slide 5.



D-Curve Review Process

- PJM requests Generation Companies to review D-Curve information in eDART:
 - D-Curve Report button on Generation Menu turns RED.
 - Generation Companies perform MVAR testing.
 - Remember to submit MVAR testing tickets.
 - Submit MVAR Adjustment Generator tickets where D-Curve needs to be updated.
 - Once completed for all units click “Acknowledge” button in the D-Curve report and D-Curve button returns to BLUE color.
- PJM updates PJM EMS with new D-Curves.

- PJM requests Transmission Companies Review updated D-Curve Report:
 - D-Curve Report button on Transmission Menu turns RED.
 - Transmission Companies update D-Curve information in their EMS based on MVAR Adjustment Generator Tickets available via the Owners Report and generator ticket notifications in the Generation Acknowledgement Required Report.
 - Once completed for all units and all D-Curves are in sync between the TO EMS and the D-Curve, report click “Acknowledge” button in the D-Curve report and D-Curve button returns to BLUE color.