



eDART December 2017 Release Enhancements

eDART Users Group Meeting
11/21/2017



- Production
 - Release of December enhancements scheduled for Wednesday, December 13th.
 - eDART will be unavailable from 19:00 to 02:00 on Thursday, December 14th.
- Sandbox release on 12/1
 - Coordinated Testing in Sandbox (TBD)
 - SMEs available to perform PJM functions e.g. update tickets (lock, approve, activate, recall, etc.) as needed.
 - Members confirm all functionalities frequently used.

- **December 2017 Enhancements**
 - Updates to Reactive Reserve Check Forms and Reports
 - Enhancements to TERM Tickets
 - Black Start Calculator Enhancements
- Other Discussion Topics
- Question & Answer Resolution Session

- Fixed issue with multiple Company Response where the eDART company is multiple companies in one.

Peak MVAR Reserve Totals													
Show Data	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		
<input type="checkbox"/>	ABC	2679.40	2679.40		0.00	0.00					864.96	note to ABC	ABC note to PJM
		60	0 of 60	60 of 60	2	0 of 2	2 of 2				118		
<input type="checkbox"/>	DEF	943.16	943.16								1104.16	note to DEF	DEF note to PJM
		28	0 of 28	28 of 28							55		
<input type="checkbox"/>	GHI	882.81	882.81								1852.46	note to GHI	GHI note to PJM
		57	0 of 57	57 of 57							92		

- On Capacitor and Reactor pages, “Rated MVAR” column changed to “Rated or Active MVAR”.

- Calculation for Lagging & Leading Reserve MVAR changed for SVCs/Statcom and Units/Condensers.
 - SE Status added.
 - If eDART Availability is Y **AND SE Status is In-Service**, **Lagging Reserve MVAR (Peak)** = Max of (Max MVAR – SE MVAR) or 0, else 0.
 - Leading Reserve MVAR = If eDART Availability is Y **AND SE Status is In-Service**, **Leading Reserve MVAR (Valley)** = Min of (Min MVAR – SE MVAR) or 0, else 0.

- TERM Tickets that do not meet the requirement of at least 3% separation between Load Dump and Long Term values can now be submitted.
 - Tickets were previously rejected.
 - Warning will be returned on submission of tickets.

Black Start Calculator Enhancements



- Goals:
 - Enhance visibility/awareness of current and future Black Start and Critical Loads
 - Enhance tracking and completion of required items prior to new units coming in service or retiring or terminating Black Start service.
 - Minimize rework by using the same baseline data across PJM/GO/TO.
 - Reduce reliance on email as documentation between PJM/GO/TO.

- Review eDART black start and critical loads to ensure TO restoration plans are aligned
- Review impacts of unit retirements and new units coming in-service
 - Development of new cranking paths
 - Communicate/coordinate steady state & dynamic study request with PJM
 - Ensure restoration plan updates are complete in accordance with EOP-005-2 R4 requirements

- New button added to Generator Tickets Main Menu called Blackstart Calculator.
 - Button highlighted in red when there is unit information for GO to update or acknowledge.
 - If no update provided, information from previous year will be used.
 - If previous year information is not available, default values will be used

Generator Tickets Main Menu

Summer Peak Period Maintenance Margin Season
Start: 06/11/2018 End: 09/07/2018

Current Maintenance Margin	
Mid-Atlantic	N/A
Western-Southern	N/A

[Create New Ticket](#)
[Opportunity Window](#)
[View/Revise Ticket](#)

	MW	Volt. Reg.	MVAR	Governor	MVAR Test	PSS
Submitted Tickets	7	0	0	0	0	0
Revised Tickets	4	0	0	0	1	0
Current Tickets	16	0	0	0	0	0
Approved Tickets	9	0	0	0	1	0
Future Tickets	0	0	0	0	0	0
Approved No Start	9	0	0	0	1	0
Active Beyond End	15	0	0	0	0	0
Recalled Tickets	0					
Forced Tickets						
Tickets History						

[Owners Report](#)
[Maint. Margin Log](#)
[D-Curve Report](#)

[Blackstart Test Upload](#)
[Blackstart Test Download](#)
[Blackstart Calculator](#)

[GO Survey](#)

Generator Tickets Main Menu

Summer Peak Period Maintenance Margin Season
Start: 06/11/2018 End: 09/07/2018

Current Maintenance Margin	
Mid-Atlantic	N/A
Western-Southern	N/A

[Create New Ticket](#)
[Opportunity Window](#)
[View/Revise Ticket](#)

	MW	Volt. Reg.	MVAR	Governor	MVAR Test	PSS
Submitted Tickets	7	0	0	0	0	0
Revised Tickets	4	0	0	0	1	0
Current Tickets	16	0	0	0	0	0
Approved Tickets	9	0	0	0	1	0
Future Tickets	0	0	0	0	0	0
Approved No Start	9	0	0	0	1	0
Active Beyond End	15	0	0	0	0	0
Recalled Tickets	0					
Forced Tickets						
Tickets History						

[Owners Report](#)
[Maint. Margin Log](#)
[D-Curve Report](#)

[Blackstart Test Upload](#)
[Blackstart Test Download](#)
[Blackstart Calculator](#)

[GO Survey](#)



- Blackstart filters replaced with Restoration Type filter on Owners Report filter.

Generation Owners Report

Company:	
Ticket ID	Ticket Type
<input type="text"/>	MW <input type="button" value="v"/>
Unit Name	Outage Type
<input type="text"/>	Planned Unplanned Maintenance Forecasted Planned
New Default Filter <input type="checkbox"/>	
Active Tickets <input type="checkbox"/>	
Critical Load <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Both Blackstart <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Both	
Capacity	Reduction
Equal to <input type="text"/>	Equal to <input type="text"/>

Generation Owners Report

Company:	
Ticket ID	Ticket Type
<input type="text"/>	MW <input type="button" value="v"/>
Unit Name	Outage Type
<input type="text"/>	Planned Unplanned Maintenance Forecasted Planned
New Default Filter <input type="checkbox"/>	
Active Tickets <input type="checkbox"/>	
Restoration Type Non-Critical Load Non-Critical Load (TO Exempt) Critical Load Critical Load (Nuclear) Critical Load (EGC) Critical Load (Load) Black Start	
Capacity	Reduction
Equal to <input type="text"/>	Equal to <input type="text"/>

- Blackstart Fields replaced with Restoration Data fields on Ticket History and Owners Report.

Blackstart	Blackstart In-Service Date	Critical Load	Non-Critical Load	BS Terminate Date	Est. Retirement Date
No		Yes	No		
No		Yes	No		
No		Yes	No		

Restoration Data				
Type	Restoration Type	Restoration Zone	Effective Date	Terminate Date
Current	Critical Load (Nuclear)	PJM	01/01/2000	
Type	Restoration Type	Restoration Zone	Effective Date	Terminate Date
Current	Critical Load (Nuclear)	PJM	01/01/2000	
Type	Restoration Type	Restoration Zone	Effective Date	Terminate Date
Current	Critical Load (Nuclear)	PJM	01/01/2000	

- December 2017 Enhancements
- **Other Discussion Topics**
 - Future Enhancements
 - eDART Refresh Updates
 - Updates to eDART Registration page
 - Cold Weather Preparation GO Survey
 - Proposal for New Functionality
- Question & Answer Resolution Session

- MVAR Test Tickets:
 - New field for telemetry verification dates per M14D, E.4.1.
 - Will be used to auto-populate Telemetry Verified Date section on Reactive Capability Testing Form.
- Instantaneous Reserve Check statistical report per month.
 - Available Capacity
 - Total Units
 - Total Reserves Acknowledged and Unacknowledged
 - $\text{Score} = \text{Total Reserves Acknowledged} / \text{Total Reserves} \times 100\%$

- Global Include Historical flag:
 - By default, downloads will return current information; user can use flag to specifically request historical information.
 - Will help reduce size of files transferred and improve performance.
- New report of Transmission tickets with Restoration Plan Review Needed = Yes or TBD.

Current timeline for Web UI refresh

- 2017 (Beginning)
 - User Experience Analysis and Design
 - Requirements gathering
- 2018
 - User accounts mapping to Account Manager
 - Work planning (overall project schedule & web UI page sequencing)
 - Web UI refresh
 - Progress review

- User Experience Analysis for the eDART Refresh is ongoing.
 - Users of the eDART web UI and browserless interface interested in providing feedback should contact Chidi Ofoegbu.
- Meeting will be scheduled in January 2018 to discuss replacement service for browserless interface.

- 10/30 updates to eDART Registration Form:
 - Option to reinstate user access added.
 - Company Contact required to indicate access type to be granted to reinstated user account.
 - Email sent to users requesting eDART Transmission access with information on submitting the CELL approval request.

- On November 1, 2017, PJM issued the 2017 PJM eDART GO Survey for Cold Weather Preparation Checklist.
- PJM requires that generating resources complete the survey no later than **23:59 EPT on December 15, 2017.**
 - An e-mail notification was sent out to PJM's eDART GO Survey contacts advising of the GO Survey along with the relevant instructions.
 - Questions pertaining to the eDART GO Survey for Cold Weather Preparation Checklist can be sent via email to edartgosurvey@pjm.com.

- Request for the ability to use one eDART user account to manage multiple company accounts.
 - Current set up requires user to have separate accounts for all managed company accounts.
- Proposal:
 - GO/TO requests one (or more) of the GO/TO's read/write users to be set up as an admin (paperwork).
 - Company Agent requests one (or more) of the Company Agent's read/write users to be set up as an admin (paperwork).

- GO/TO Admin logs into eDART and selects a prospective Company to be Company Agent.
 - Prospective Company Agent Admin confirms (Or Rejects) the Company Agent selection with notification back to original GO/TO Admin.
 - A confirmed Company Agent's users will be able to perform the same eDART functions as GO/TO.

- December 2017 Enhancements
- Other Discussion Topics
- **Question & Answer Resolution Session**

- edarthelp@pjm.com
- Chidi Ofoegbu: chidi.ofoegbu@pjm.com
- Vy Le: vy.le@pjm.com