



eDART September 2016 Release Enhancements

eDART Users Group Meeting
8/24/2016

- Production
 - Release of September enhancements scheduled for Wednesday, September 28th.
 - eDART will be unavailable from 19:00 to 02:00 on Thursday, September 29th.
- Sandbox
 - Release of September enhancements scheduled for week of September 12th.

- September 2016 Enhancements:
 - Generator Outage Ticket Enhancements
 - Transmission Outage Ticket Enhancements
 - Reactive Reserve Check Refresh
 - Other Enhancements
- Other Discussion Topics
- Question & Answer Resolution Session

- 48 hour rule being implemented for Planned Outages per Manual 10:

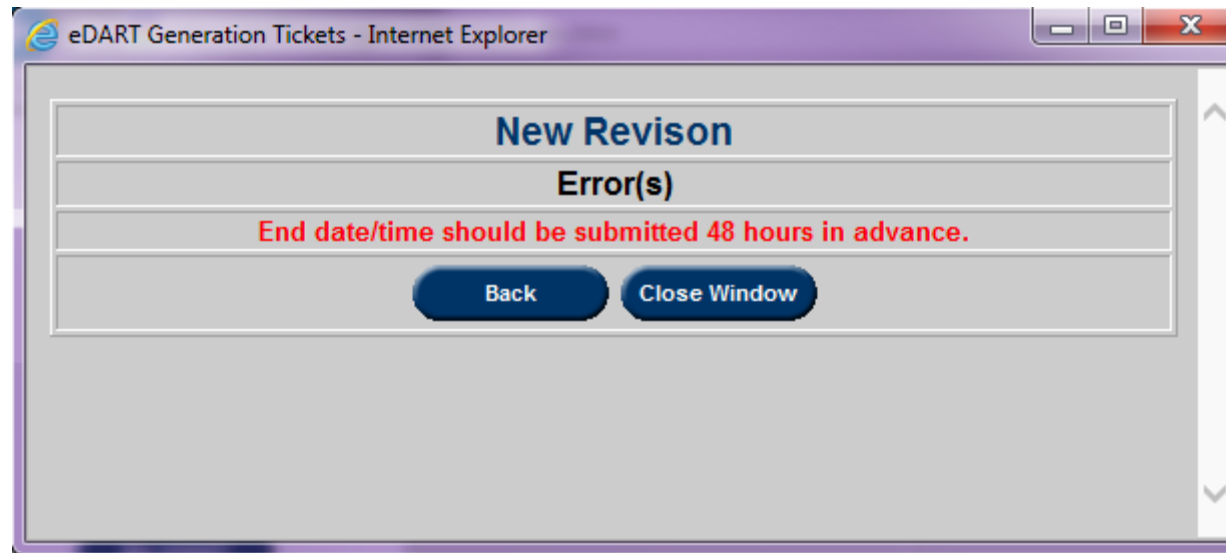
2.2.3 Planned Outage Extension

A Planned Outage may be extended beyond its originally estimated completion date in those instances when the original scope of work requires more time to complete than originally scheduled. The outage extension is not used for those instances when unexpected problems or delays are encountered to render the generation resource in question, out of service past the expected date of the Planned Outage.

The request for a Planned Outage Extension must be submitted via eDART at least 48 hours before the end date of the outage.

48 hr. Rule for Unit Planned Outage Extensions

- Error message displayed for revisions to Est. End Date that violate 48 hour rule.



- Current Switch End Date auto-approval rules for Active tickets:
 - |Reduction| < 50 MW &
 - Reduction < 100 MW &
 - Switch End Date between now - 18 hours and now + 1 hour.
(editable parameters)
 - If rules not passed, ticket needs to be manually closed.
- New Switch End Date auto-approval rule for Active tickets:
 - Switch End Date between now - 18 hours and now + 1 hour.
(editable parameters)

- Current issue:
 - Unit ownership is transferred from Company A to Company B.
 - On D-Curve Report, Company B unable to view Latest Completed Default MVAR Ticket created under Company A.
- Solution:
 - On unit ownership transfer, eDART will create a copy of the Latest Completed Default MVAR Ticket under the new owner.
 - Added PJM comments: “Copy of Default MVAR Ticket# XXXXX due to eDART ownership change.”
 - Previous ticket remains as is and referenced in new ticket.

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- External Outages from SDX added to Conflict Analyzer functionality.
 - PJM to add identified impactful equipment and generators to conflict scenarios.
 - Company/TO Zone = 'EXTERNAL'
 - Visible if TO has access to equipment otherwise "Contact PJM for more info." is displayed.
 - Tickets created for reported external outages.
 - No changes to TO conflict functionality.

Conflicting Identifier Facility List

Title: Almonds-Brush Conflicts Category: Thermal Comments: <input type="text" value="Comments"/> Review Comments: <input type="text"/>	Active: Yes Review Needed: Yes	Comp. Viewable: Yes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Company / TO Zone</th> <th style="width: 10%;">Type</th> <th style="width: 15%;">Station / Type</th> <th style="width: 10%;">Voltage / ICAP</th> <th style="width: 20%;">Equip. Name / Commercial Name</th> <th style="width: 10%;">Primary</th> </tr> </thead> <tbody> <tr> <td>Company A</td> <td>LINE</td> <td>ALMONDS</td> <td>500 KV</td> <td>ALMONDS-BRUSH</td> <td>Yes</td> </tr> <tr> <td colspan="6" style="text-align: center;">Contact PJM for more info.</td> </tr> <tr> <td colspan="6" style="text-align: center;">Contact PJM for more info.</td> </tr> <tr> <td colspan="6" style="text-align: center;">Contact PJM for more info.</td> </tr> <tr> <td>Company B</td> <td>LINE</td> <td>BRUSH</td> <td>138 KV</td> <td>BRUSH-PEA21</td> <td>No</td> </tr> <tr> <td>Company A</td> <td>LINE</td> <td>ALMONDS</td> <td>500 KV</td> <td>ALMONDS-PEA 1</td> <td>No</td> </tr> </tbody> </table>	Company / TO Zone	Type	Station / Type	Voltage / ICAP	Equip. Name / Commercial Name	Primary	Company A	LINE	ALMONDS	500 KV	ALMONDS-BRUSH	Yes	Contact PJM for more info.						Contact PJM for more info.						Contact PJM for more info.						Company B	LINE	BRUSH	138 KV	BRUSH-PEA21	No	Company A	LINE	ALMONDS	500 KV	ALMONDS-PEA 1	No
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Contact PJM for more info.																																													
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Conflicts for Ticket: 67812 as of: 08/23/2016 10:10:21

Current Mitigated: No

Current Mitigated Comments:

Load Existing Conflicts: Yes No

Ticket ID	Ticket Type	Ticket Status	Company	Station/Type	Voltage/ICAP	Equipment/ Commercial Name	Start Date	End Date	Timestamp	On Time	Conflict Title	Existing or New	Mitigated
68087	Trans	Active	EXTERNAL	APPLES	138 KV	APPLES-GRAPES 1	03/07/2016 09:00	08/16/2016 00:00	08/10/2016 11:16	No	08112 08112016	Existing	No
									08/10/2016 11:16	No	08112 08112016	Existing	No

Contact PJM for more info.

- Current:
 - Uncancelled tickets retain Submit on Time status from before cancellation.
- New:
 - When ticket is uncancelled, Submit on Time status will be re-evaluated based on date of re-submission.
- On Time status added to Conflict Outages PDF report.
 - Sent in Conflicting Transmission Outages for Next 90 Days emails.

- Updates to Monthly Late Outage Report emails::
 - EMS Trip tickets to be excluded.
 - Equipment status to be corrected; including Open Ended status (E).
- Transmission Ticket Acknowledge button bug fix.
 - Button currently disappears after viewing or updating Files page.

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- Current Reactive Reserve Check done on company level.
- New Reactive Reserve Check to be done per facility.
 - Reserve data pre-populated from eDART and PJM EMS systems for:
 - Capacitors
 - Reactors
 - SVCs/Statcom
 - Units/Condensers
 - Reserve data available for Peak and Valley RRC.
 - Display of current reserve data when RRC is not in progress.

- Phase 1a (9/28 release):
 - Availability of RRC Self-Check report.
- Phase 1b (Q4 2016):
 - Availability of RRC Self-Check data; updated every 5 minutes.
- Phase 2 – 2017:
 - Ability for PJM to issue new RRC.
 - Functionality to retrieve/submit real time reserve values.
 - Design still in progress.
 - Testing and Parallel Operations with current RRC.

Peak MVAR Reserves Self-Check

Company: **Electric Company** Request Timestamp: **08/23/2016 10:38**
 User Name: Data Updated: **08/03/2016 15:32**

	Capacitors	Reactors	SVCs/Statcom	Units/Condensers
PJM Estimate:				

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers

Capacitors

Station/Equipment Name	Zone	KV	eDart Availability	SE Status	SE KV	SE MVAR	Rated MVAR	Lagging Reserve MVAR

- Network Model
- Black Start
- Telemetry Coordination
- TERM
- Reactive Reserve
- New Reactive Reserve
- Instantaneous Reserve Check
- Minimum Gen. Report

Peak MVAR Reserves Self-Check

Company: [Electric Company](#) Request Timestamp: [08/23/2016 10:41](#)
 User Name: Data Updated: [08/03/2016 15:32](#)

	Capacitors	Reactors	SVCs/Statcom	Units/Condensers
PJM Estimate:				

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers

Reactors

Station/Equipment Name	Zone	KV	eDart Availability	SE Status	SE KV	SE MVAR	Rated MVAR	Lagging Reserve MVAR

Peak MVAR Reserves Self-Check

Company: **Electric Company** Request Timestamp: **08/23/2016 10:43**
 User Name: Data Updated: **08/03/2016 15:32**

	Capacitors	Reactors	SVCs/Statcom	Units/Condensers
PJM Estimate:				

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers

SVCs/Statcom

Station/Equipment Name	Zone	KV	eDart Availability	SE Status	SE Mode	SE MW	SE MVAR	Max MVAR	Lagging Reserve MVAR

-
-
-
-
-
-
-
-

Peak MVAR Reserves Self-Check

Company: **Electric Company**

User Name:

Request Timestamp: **08/23/2016 10:46**

Data Updated: **08/03/2016 15:32**

	Capacitors	Reactors	SVCs/Statcom	Units/Condensers
PJM Estimate:				

Apply Sort
Refresh
Main Menu
Help

Capacitors
 Reactors
 SVCs/Statcom
 Units/Condensers

Units/Condensers

Station/Equipment Name	Zone	KV	eDart Availability	Unit Status	AVR Status	SE MW	SE MVAR	Max MVAR	Lagging Reserve MVAR

TERM

Reactive Reserve

New Reactive Reserve

Instantaneous Reserve Check

Minimum Gen. Report

PJM Status Report

NERC Data

Restoration Data

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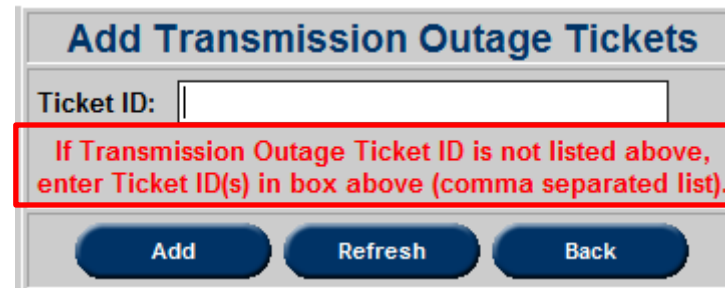
Add Transmission Outage Tickets

Ticket ID:

If Transmission Outage Ticket ID is not listed above, enter Ticket ID(s) in box above (comma separated list).

- New Link Cut-In Tic. button on Network Model request.
 - Select Transmission tickets to be linked.
 - Add Transmission ticket IDs manually.

- Transmission ticket information to be added to Network Model email for requests with linkages.
- Network Model Requests for archived Model Builds to be excluded from Main Menu count.
- Addition of guidance text to Transmission/Network Model linkage screens.

A screenshot of a web form titled "Add Transmission Outage Tickets". The form has a light gray background and a blue header. Below the header is a text input field labeled "Ticket ID:". Below the input field is a red-bordered box containing the text: "If Transmission Outage Ticket ID is not listed above, enter Ticket ID(s) in box above (comma separated list).". At the bottom of the form are three blue buttons labeled "Add", "Refresh", and "Back".

Add Transmission Outage Tickets

Ticket ID:

If Transmission Outage Ticket ID is not listed above, enter Ticket ID(s) in box above (comma separated list).

Add **Refresh** **Back**

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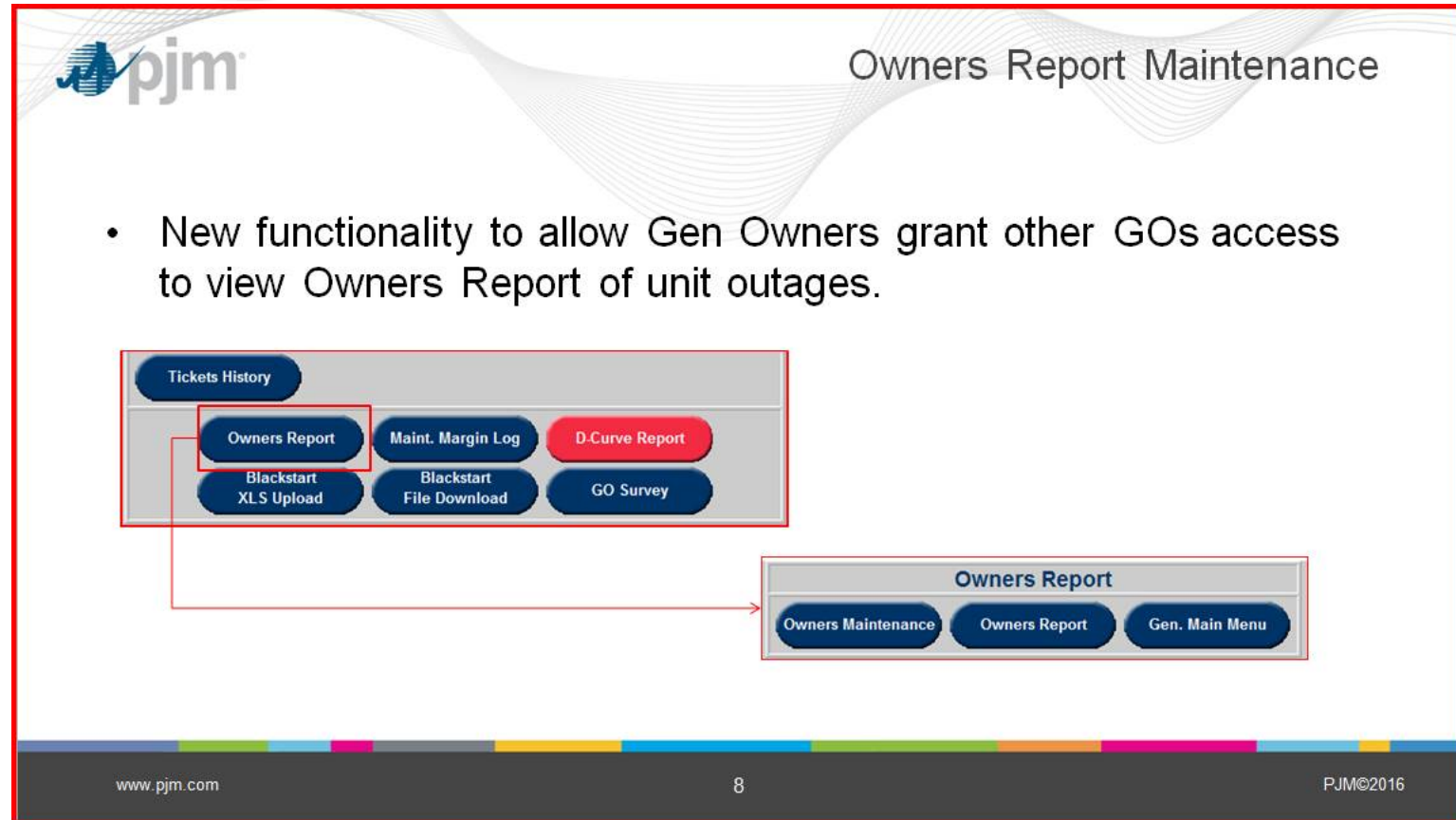
- About halfway through loading CB ratings listed on the OASIS System Information page.
 - Double modelled low impedance devices have been bypassed.
 - Actively monitoring flow CBs in real-time and near-term outage studies.
 - Spreadsheets posted on OASIS will be removed, ratings have been integrated into existing posting.

- PJM will screen breaker ratings on a pre and post contingency basis.
 - Non-deterministic flow breakers, like in a fully closed ring bus, will be ignored.
- PJM EMS can screen breaker and branch elements separately.
 - More efficient operations when branches aren't de-rated all the time due to a switch limitation.
 - May result in operational differences if EMS does not screen breakers.
- Rating updates will go through same TERM process.
 - New equipment type of 'BRKR'.
 - New flow breakers will require a Network Model ticket to be added in the next model build.

- **Reactive Testing Tickets:**
 - replacement of current MS Excel and email method of GOs communicating reactive test data and analysis results.
- **Network Model Request Form Refresh:**
 - to improve coordination for model build processing.
- **Non-SVG One-Line Diagram Files:**
 - availability of one-line diagrams in alternate file format(s).
- **Equipment Outages Preview:**
 - user preview of what would be outaged based on equipment entered on the Transmission Ticket.

- The correct way of granting read-only access for generator outages to other GOs for select units in eDART is through the eDART Owners Report Maintenance feature.
- **Important: A request that users from another company be granted eDART accounts under your company is NOT the correct way to give read-only access for select units. This will instead give them access to your company's entire unit list.**


Instructions on how to grant read-only access for select units discussed at the May 2016 eDART User Group meeting.



The screenshot shows the PJM Owners Report Maintenance interface. At the top left is the PJM logo, and at the top right is the title "Owners Report Maintenance". A bulleted list states: "New functionality to allow Gen Owners grant other GOs access to view Owners Report of unit outages." Below the text are two panels of buttons. The first panel, titled "Tickets History", contains buttons for "Owners Report", "Maint. Margin Log", "D.Curve Report", "Blackstart XLS Upload", "Blackstart File Download", and "GO Survey". A red box highlights the "Owners Report" button. A red arrow points from this box to a second panel titled "Owners Report", which contains buttons for "Owners Maintenance", "Owners Report", and "Gen. Main Menu".

- New functionality to allow Gen Owners grant other GOs access to view Owners Report of unit outages.

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Owners Report Maintenance

- To grant access, select unit, select company and Submit Form.

Owners Report

[Add Unit Name](#) [Add Company](#)

APPLES STEAM GC COMPANY

- To remove access, check Delete as desired and Submit Form.

Owners Report

[Add Unit Name](#) [Add Company](#)

Delete	Unit Name	Company	Eff. date
<input type="checkbox"/>	APPLES STEAM	GC COMPANY	05/03/2016 17:21
<input checked="" type="checkbox"/>	APPLES STEAM	XYZ WINDFARM	05/03/2016 17:20

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- Coordinated Testing in Sandbox:
 - 2 hour conference call session on Wednesday, 9/14 (tentative).
 - SMEs available to perform PJM functions e.g. update tickets (lock, approve, activate, recall, etc.) as needed.
 - Members confirm all functionalities frequently used.
- Tech Change Forum meetings scheduled for:
 - Tuesday, 9/27: change awareness discussion
 - Wednesday, 9/28: technical implementation discussion.
- User Guide and Training updates in progress.

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