



# eDART September 2015 Release Enhancements

eDART Users Group Meeting  
09/02/2015

- Production
  - Release of September enhancements scheduled for Wednesday, September 16<sup>th</sup>.
- Sandbox
  - September enhancements are currently in Sandbox.

- September 2015 Enhancements:
  - TOA-AC Requested Enhancements
    - Grouping Transmission Outage Tickets into Projects
    - Company System Impact Report
    - Notification Access for Network Model Requests
    - Other Enhancements
    - Decommission of old Instantaneous Reserve Check
- Other Discussion Topics
- Question & Answer Resolution Session

- NDA created so model info more efficiently shared from PJM to members – Completed 8/11
  - Current Model Sharing:
    - One-lines
    - Attachments in TERM & Trans Outage Tickets Notifications
  - Future Model Sharing:
    - PJM Footprint CIM file on DMS SharePoint
    - Network Model Requests of other TO
    - Linkage of Network Model requests to cut-in tickets

- The Transmission Owners Agreement-Administration Committee (TOA-AC) has requested eDART Transmission users must electronically agree to certificate aligned with model sharing confidentiality NDA.
  - Acceptance periodicity: Monthly.
  - Process:
    - Upon transmission user login, if time to sign, user is required to sign immediately before progressing anywhere in eDART suite.
    - Upon transmission user login in, if within 7 days of time to sign, user has option to sign immediately or later.
    - Upon signature, timestamp is recorded and the signing clock resets.

## Reminder Prompt

**Model Sharing Non-Disclosure Agreement**

**NON-DISCLOSURE CERTIFICATE**

I hereby certify my understanding that access to Confidential Information is provided to me pursuant to the terms and conditions of the Non-Disclosure Agreement dated as of the \_\_\_ day of \_\_\_\_\_, 20\_\_ by and among PJM Interconnection, L.L.C. (“PJM”) and the PJM Transmission Owner (“Transmission Owner”), who is a member of the Security and Resiliency Subcommittee. I certify that I have been given a copy of and have read the Non-Disclosure Agreement, and I agree to be bound by it. I understand that the contents of the Confidential Information, and Notes or other memoranda, or other form of information that copies or discloses Confidential Information shall not be disclosed to anyone other than in accordance with the Non-Disclosure Agreement.

**NON-DISCLOSURE AGREEMENT  
FOR THE EXCHANGE OF ENERGY MANAGEMENT SYSTEM MODEL DATA**

This Non-Disclosure Agreement (“Agreement”) is made this \_\_\_ day of \_\_\_\_\_, 20\_\_ by and between PJM Interconnection, L.L.C. (“PJM”), a Delaware limited liability company, with offices at 2750 Monroe Boulevard, Audubon, PA 19403 and \_\_\_\_\_, the Undersigned Transmission Owner (“Transmission Owner”) (hereinafter PJM and the Undersigned Transmission Owner are collectively referred to as “Parties”

Name:

Email:

[Non-Disclosure Agreement](#)

NDA sign-off will need to occur by DATE to retain access to this application.

## Agreement Due

**Model Sharing Non-Disclosure Agreement**

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Name:

Email:

[Non-Disclosure Agreement](#)

NDA acceptance has expired. Please re-sign agreement to regain access to this application.

- Implementation Timeline:
  - Grace period of 30 days post-implementation to sign before access is restricted.
    - Initial login message not displayed.
    - User can go to My eDART → NDA Sign-Off.
  - After grace period, user must sign in to retain access to eDART.

**My eDART Form**

Company: **Electric Company** User ID: **test**

Functionality	Display
Black Start	Yes ▼
Display Calendar Pop-Up	Yes ▼
Facility Display	Yes ▼
FeedBack Form	Yes ▼
NERC Data	Yes ▼
Network Model	Yes ▼
PJM Status Report	Yes ▼
Reactive Reserve	Yes ▼
Restoration Data	Yes ▼
TERM	Yes ▼
Telemetry Coordination	Yes ▼
Trans. Tickets	Yes ▼
XML Download	Yes ▼
XML Upload	Yes ▼

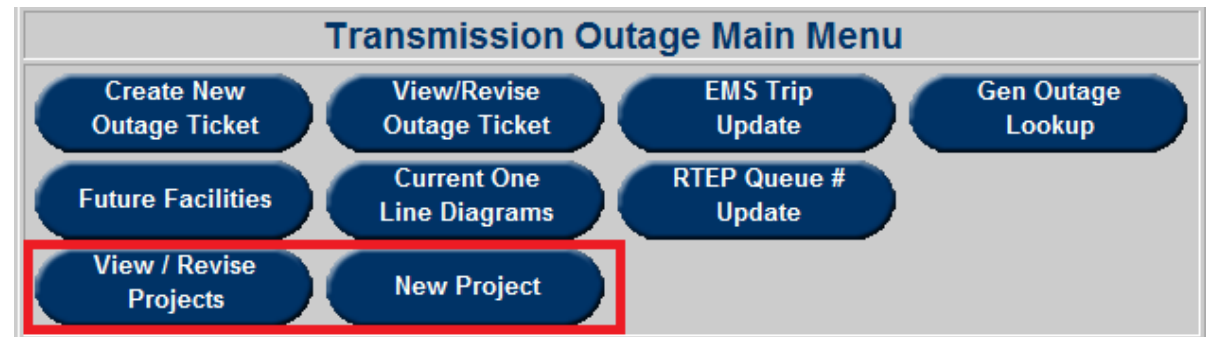
Submit Form
NDA Sign-Off





- September 2015 Enhancements:
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  - Notification Access for Network Model Requests
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- Other Discussion Topics
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- New functionality to allow TOs and PJM group transmission outage tickets into projects.
  - Tickets can be part of multiple projects.
- TO user will be able to:
  - Create projects.
  - Add and remove transmission outage tickets to and from projects.
  - Archive projects (remove projects from active list so no tickets may be added).



- Project Name is a required field.
- 'Add Tickets' to search for tickets to add.
- 'View/Revise Projects' to see projects list.

### New Transmission Project

Company: [Electric Company](#)

Name:

Description:

[Submit Form](#) [View / Revise Projects](#) [Main Menu](#)

### Transmission Project

Company: [Electric Company](#)

Project Name:

Active / Inactive:  Active  Inactive

Description:

[Add Tickets](#) [Submit Form](#) [Refresh](#) [View / Revise Projects](#) [Main Menu](#)

There are currently no tickets assigned to this Project.

### Transmission Project

Company: [Electric Company](#)      Description:

Project Name:      

Active / Inactive:  Active  Inactive

There are currently no tickets assigned to this Project.

#### Ticket Selection

Ticket ID: <input type="text"/>	Ticket Company: <a href="#">Electric Company</a>	Ticket Status: <input type="text"/>	Active / Inactive: <input checked="" type="radio"/> Active <input type="radio"/> Inactive <input type="radio"/> All
Type: <input type="text"/>	Station: <input type="text"/>	Voltage: <input type="text"/>	Equipment: <input type="text"/>
Start Date From: <input type="text"/> To: <input type="text"/>	End Date From: <input type="text"/> To: <input type="text"/>	Occurring During From: <input type="text" value="09/01/2015"/> To: <input type="text" value="09/30/2015"/>	<input type="button" value="Apply Filter"/>

Tickets available to add to the Project

Add	Ticket ID	Company Ticket ID	Ticket Status	Company	Start Date	End Date	Type	Station	Voltage	Equipment
<input type="checkbox"/>	<a href="#">209571</a>		Approved	Electric Company	09/02/2015 00:00	09/04/2015 00:00	LINE		115 KV	
<input type="checkbox"/>	<a href="#">213218</a>	VW Test SIR 3 9-17-14	Submitted	Electric Company	09/16/2015 00:00	09/17/2015 00:00	BRKR		138 KV	
<input type="checkbox"/>	<a href="#">213219</a>	VW Test SIR 2 9-17-14	Submitted	Electric Company	09/02/2015 00:00	09/03/2015 00:00	BRKR		138 KV	
<input type="checkbox"/>	<a href="#">213242</a>	vw test 3 3-11-15	Submitted	Electric Company	10/01/2014 00:00	10/14/2019 00:00	LINE		115 KV	

Apply filter to search for tickets

Check to add ticket to project

Select to archive project

### Transmission Project

Company: **Electric Company**      Description:

Project Name:

Active / Inactive:  Active  Inactive

**Tickets in the Project**

Remove	Ticket ID	Company Ticket ID	Ticket Status	Company	Start Date	End Date	Type	Station	Voltage	Equipment
<input type="checkbox"/>	<a href="#">209571</a>		Approved	Electric Company	09/02/2015 00:00	09/04/2015 00:00	LINE		115 KV	
<input type="checkbox"/>	<a href="#">213218</a>	VW Test SIR 3 9-17-14	Submitted	Electric Company	09/16/2015 00:00	09/17/2015 00:00	BRKR		138 KV	
<input type="checkbox"/>	<a href="#">213242</a>	ww test 3 3-11-15	Submitted	Electric Company	10/01/2014 00:00	10/14/2019 00:00	LINE		115 KV	

Add Tickets    Submit Form    Refresh    View / Revise Projects    Main Menu

Check to remove ticket from project

- By default, only active projects are displayed.
  - Uncheck 'Active Projects Only' to see archived projects.

### Transmission Projects

Company: [Electric Company](#)

Project:  [Search](#)

Active Projects Only

Project Name	Description	# of Tickets	Active
<a href="#">Chidi's 2016 Project</a>	Project for lines from orange to Apple.	3	Yes
<a href="#">test</a>		1	Yes

[New Project](#) [Refresh](#) [Main Menu](#)

**New Transmission Ticket**

User: **test**    Company: **Electric Company**

Company Ticket ID:     RTEP Queue #:

Ticket Start		Ticket End		Switch Date	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Date (mm/dd/yy)	Hour (hh24:mi)	Date (mm/dd/yy)	Hour (hh24:mi)	Date (mm/dd/yy)	Hour (hh24:mi)

<b>Location/Description of Work (4000 char. max)</b> <input style="width: 95%; height: 50px;" type="text"/>	<b>Information/Hotline Work</b> <input type="checkbox"/> Emergency <input type="checkbox"/> Vegetation Trip <input type="checkbox"/> Cut In <input type="checkbox"/> Direct Billing <input type="checkbox"/> Direct Billing Decline <input type="checkbox"/>	<b>Cause</b> <input style="width: 95%; height: 50px;" type="text"/>
--	---	--

<b>Outage Type</b> <input type="text"/>	<b>Availability</b> <input type="text"/>	<b>Planned:</b> <input type="text"/>	<b>Restoration Plan Review Needed</b> <input type="text"/>
<b>Type</b> <input type="text"/>	<b>Station Name</b> <input type="text"/>	<b>Operational:</b> <input type="text"/>	<input type="text"/>

**Add to Project**  
  
 Chidi's 2016 Project test

Tier 1  
  Tier 2  
  Tier 3

Primary	Status	Include	Type	Station Name	Voltage	Equipment Name	Start Date	Start Hour	End Date	End Hour
---------	--------	---------	------	--------------	---------	----------------	------------	------------	----------	----------

<b>Outage Type</b> Continuous		<b>Availability</b> Immediate		<b>NERC-TADS</b> Planned: Third Party Request		<b>Restoration Plan Review Needed</b> Yes	
<b>Type</b> [ ]	<b>Station Name</b> [ ]	<b>Voltage</b> [ ]	<b>Equipment Name</b> [ ]	Operational: N/A			

Tier 1  
  Tier 2  
  Tier 3

[Print Version](#)  
 [Date Time Log](#)  
 [History Log](#)  
 [Notifications Log](#)  
 [Cancel Ticket](#)  
 [Duplicate Ticket](#)  
 [View Conflicts](#)  
 [Gen Off Conflicts](#)

[Station Equip.](#)  
 [Submit Form](#)  
 [Refresh](#)  
 [Gen. Outage Lookup](#)  
 [Comments Log](#)  
 [NERC-TADS Reports](#)  
[Projects](#)  
 [Main Menu](#)

### Projects for Ticket

Company: [Electric Company](#)  
 Ticket: [213242](#)  
 Description: Testing load

Add Ticket to Project  
 [ ]

**Projects containing this Ticket**

Project Company	Project Name	Project Description	Active	Remove
Electric Company	Chidi's 2016 Project	Project for lines from orange to Apple.	Yes	<input type="checkbox"/>
Electric Company	test		Yes	<input type="checkbox"/>

[Submit Form](#)  
 [Back to Ticket](#)



- PJM can create and edit projects for TOs and add multiple TOs' tickets to the projects.
  - Project owning TO can view/revise all tickets in the project.
  - Non-owning TOs can only see their tickets in the project.



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- Currently, TOs only see System Impact notes when added to a Transmission Outage Ticket.
- New reports to display all System Impact notes for TOs equipment for review at any time.
  - Per Impact: Search by Impact Title
  - Per Facility: Search by Facility. Equipment can be part of multiple System Impact notes.
  - Impacts Report: List of all company's System Impact notes.

**Transmission Outage Main Menu**

[Create New Outage Ticket](#)
[View/Revise Outage Ticket](#)
[EMS Trip Update](#)
[Gen Outage Lookup](#)

[Future Facilities](#)
[Current One Line Diagrams](#)
[RTEP Queue # Update](#)

**Transmission Reports**

[Status Report](#)
[Trans. Outage Tickets Report](#)
[Tickets Active Tomorrow](#)

Submitted: 600 / 4 Revised: 18 / 6 Received: 61 / 7  
 Approved: 320 / 23 Active: 34 / 6 **Incomplete: 191** **At Risk: 2**

**Conflicts**

[Conflicting Outages](#)
[Confl. Identifier Facility List](#)
[Confl. Identifier Group List](#)
[Gen Off Scenario List](#)

**Review Needed: 27** **Review Needed: 2**

Submitted: 139 Revised: 0 Received: 4 Approved: 30 Active: 3

**System Impacts**

[Per Impact](#)
[Per Facility](#)
[Impacts Report](#)

**NERC-TADS**

[NERC-TADS Report](#)
[Ticket Update](#)
[Ticket Date Exception](#)
[Transformer Selection](#)

**Generation Reports**

[Generation Ack. Required](#)
[Owners Report](#)
[Tickets Active Tomorrow](#)
[D-Curve Report](#)

Notifications: 162

**Notification Reports**

[Transmission Ack. Required](#)
[Notifications Report](#)
[Notifications Request Form](#)

Notifications: 9

**Facility Outages Reports**

[Current & Future](#)
[Historical](#)
[EMS Outage List](#)

**Per Impact**

Title:

Title	Comments
Test	test

Type	Station	Voltage	Equipment	Terminate Date
CAP	APPLE	34 KV	APPLE CAP 12/3	04/05/2010
LINE	APPLE	138 KV	APPLE ORANGE L108	
LINE	ORANGE	500 KV	ORANGE LIME L109	

[Refresh](#)
[Per Facility](#)
[Impacts Report](#)
[Main Menu](#)

## Per Facility

Type	Station Name	Voltage	Equipment Name	Impact Title
LINE	ORANGE	500 KV	ORANGE LIME L109	

Title	Comments
Syslm 1	System Impact note
Test	Test

[Per Impact](#)
[Impacts Report](#)
[Main Menu](#)

## System Impacts Report

Type	Station Name	Voltage	Equipment Name	Terminate Date
LINE	APPLE	138 KV	APPLE LDL 122	

Comments:

Type	Station Name	Voltage	Equipment Name	Terminate Date
LINE	APPLE	138 KV	APPLE LDL 123	

Title: **Mistest2**  
 Comments: test2

Type	Station Name	Voltage	Equipment Name	Terminate Date
CAP	APPLE	34 KV	APPLE CAP 12/3	04/05/2010
LINE	APPLE	138 KV	APPLE ORANGE L108	
LINE	ORANGE	500 KV	ORANGE LIME L109	

Title: **Test**  
 Comments: test



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- Network Model Notifications
  - Transmission Owners will be able to request for notification access to other Transmission Owners' Network Model requests.
    - Ability to filter between own requests and notification requests.
    - Read only view of notification requests.
    - Ability to download files attached to notification requests.
  - Access will be managed by PJM Model Coordinators. TOs can email the Model Management Dept. at PJM ([dms\\_officers@pjm.com](mailto:dms_officers@pjm.com)) to request access.

Network Model Change Request Selection Form	
Company	Company Project ID
<input type="text" value="Company Name"/>	<input type="text"/>
Title	Request ID
<input type="text"/>	<input type="text"/>
Station	Status
<input type="text"/>	Approved Cancelled by Company Cancelled by PJM Complete
Target Model Build	Actual Model Build
<input type="text"/>	<input type="text"/>
Submit On-Time	Requests / Notifications
<input type="radio"/> On-Time <input type="radio"/> Late <input checked="" type="radio"/> All	<input checked="" type="radio"/> Requests Only <input type="radio"/> Notifications Only
Tie Lines Only	Telemetry Review Only
<input type="checkbox"/>	<input type="checkbox"/>
Contain Attachments	In Progress
<input type="checkbox"/>	Both
Submittal Date Range (mm/dd/yyyy)	In Service Date Range (mm/dd/yyyy)
From: <input type="text"/> To: <input type="text"/>	From: <input type="text"/> To: <input type="text"/>
<input type="button" value="Apply Form"/> <input type="button" value="Refresh"/> <input type="button" value="Main Menu"/>	

## Change Request Report

	1							
Email	Req. ID	Company	Title	Status	In Progress	Submit On-Time	Target Build	Actual Build
<input type="checkbox"/>	<a href="#">2001</a>	Owning Company #1	Test - PJM - #2	Cancelled by PJM	No	Late	Fall 2006	
<input type="checkbox"/>	<a href="#">2004</a>	Owning Company #2	Station A: Install new 69kV Substaion	Revised	No	Late	Spring 2007	Fall 2007
<input type="checkbox"/>	<a href="#">2005</a>	Owning Company #2	New Washington substation feeding Grapewater	Cancelled by Company	No	Late	Fall 2006	Fall 2006
<input type="checkbox"/>	<a href="#">2006</a>	Owning Company #2	Karsion - Melson 115kV	Implemented	No	Late	Fall 2007	
<input type="checkbox"/>	<a href="#">2007</a>	Owning Company #3	Fover Substation	Revised	Yes	Late	Fall 2007	Winter 2007



# Notification Access to Network Model Requests

## Notification Only

## Request

### Network Model Change Request

Request ID: 2001 Company: Your Company

Title: Test - PJM - #2

Company Project ID: [ ] Type: Project (New Equipment)

RTEP/Gen Queue: [ ] Status: Cancelled by PJM

Description: [ ] PJM Comments: This is an initial PJM test. Please ignore. Stations: [ ]

Earliest Equip. In Service Date: 08/15/2007 Target Model Build: Fall 2006

In Progress: No Entry Date: 08/09/2006 23:38

Submit On-Time: Late Submit Evaluation Date: 04/28/2015 [On-Time Log](#)

**Change Request was Submitted or Revised on 04/28/2015.  
For the Fall 2006 Build, the request needs to be submitted by 04/07/2015.  
Please contact your PJM Model Coordinator.**

Breakers/Disconnects			
Station	Voltage	B3 Name	Status
	115 KV		Original
	115 KV		Original
	115 KV		Original
	115 KV		Original

Busbar			
Station	Voltage	B3 Name	Status

Shunts			
Station	Voltage	B3 Name	Status

Generators/SVCs			
Station	Voltage	B3 Name	Status
	34 KV		Original

Loads			
Station	Voltage	B3 Name	Status

Lines Telemetry Review Needed			
Station	Voltage	B3 Name	Status

### Network Model Change Request

Request ID: 3021 Company: Your Company

Title: Test #3

Company Project ID: [ ] Type: Project (New Equipment)

RTEP/Gen Queue: [ ] Status: Submitted

Description: [ ] PJM Comments: [ ] Stations: [ ] [Stations](#)

Target Model Build: Fall 2006

In Progress:  Entry Date: 03/26/2007 10:39

Submit On-Time: Late Submit Evaluation Date: 04/28/2015 [On-Time Log](#)

**Change Request was Submitted or Revised on 04/28/2015.  
For the Fall 2006 Build, the request needs to be submitted by 04/07/2015.  
Please contact your PJM Model Coordinator.**

Breakers/Disconnects			
Station	Voltage	B3 Name	Status
	138 KV		Original
	138 KV		Original
	138 KV		Original
	138 KV		Original

Busbar			
Station	Voltage	B3 Name	Status

Shunts			
Station	Voltage	B3 Name	Status
	138 KV		Original

Generators/SVCs			
Station	Voltage	B3 Name	Status

Loads			
Station	Voltage	B3 Name	Status

Lines			
Station	Voltage	B3 Name	Status

- If request is late, late notice will be displayed on the Files page.
- Submit On-Time column added to Change Request Report.
- Build column on Change Request Report replaced with 2 columns:
  - Target Build
  - Actual Build

**Change Request Report**

	1							
Email	Req. ID	Company	Title	Status	In Progress	Submit On-Time	Target Build	Actual Build
<input type="checkbox"/>	<a href="#">3724</a>	Electric Company	jp test 5/21/2014	Submitted	No	On-Time	Summer 2014	Winter 2014/15

- Actual Model Build field added to Network Model Change Request.



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- New 'Congestion Expected Only' filter added to Transmission Outage ticket filters.
- Congestion Expected and At Risk columns added to:
  - Review/Revise Tickets report.
  - Conflicting Outages report.



- Disclaimer and new fields added to Scheduled Outages section linesout.txt file at <https://edart.pjm.com/reports/linesout.txt> :
  - RTEP Queue #
  - Availability: in hours or None (for Duration)
  - Approval Risk: Yes (outage is At Risk or has active conflicts) or blank
  - Previous Ticket Status: blank if current status = first status
- Future enhancement to add these fields to the web UI reports and TOIMWG download.

- New report of 'Expiring Temporary Tickets' to identify Implemented and Implemented w/o approval temporary tickets within 24 hours of, or past their Estimated End Date.
  - Reminder that permanent ratings of facilities in the tickets need to be restored.
- New report of 'Unrated Facilities' to identify TERM facilities that do not have ratings (initially assigned zeros).
- SPS indicator added to TERM tickets to identify SPS facilities.



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- September 2015
  - IRC New became official tool (9/1).
  - PJM Dispatch will no longer issue IRC on old tool.
  - IRC New renamed to IRC in Q3 eDART release (09/16).
  - Old IRC Reports will still available for viewing





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- The Transmission Facilities page which identifies facilities by transmission owners has moved.
- Previous Location: <http://www.pjm.com/markets-and-operations/transmission-service/transmission-facilities.aspx>
- New location: <http://www.pjm.com/markets-and-operations/ops-analysis/transmission-facilities.aspx>



- Timeline
  - Manual 10 changes effective Thursday, 10/1.
  - eDART changes to be implemented also on Thursday, 10/1.

- New field on New Generator Ticket called Early Return Time.
  - Valid only for Forecasted Planned/Planned outages.
  - Defaulted to Est. End.
- New field on Maintenance Generator Ticket called Early Recall Time.
  - Valid only for Maintenance outages.
  - Read only field; populated by PJM.
  - Blank except when outage is being recalled.

- If a recalled Maintenance outage is still active after the recall time, it will be completed and a duplicate Forced/Unplanned outage ticket will be created for the affected unit.
  - New field on Unplanned ticket called **Linked Outage** to identify the ticket ID of the parent Maintenance outage.
- New button on Generator Tickets Main Menu called **Recalled Tickets**
  - Color changed to red when there are recalled outages.
  - Click to open report of recalled outages.

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