

eDART Enhancements Scheduled for December 2011 Release

eDART Users Group
Meeting
11/17/2011

- **December Release (12/14)**
 - eDART will be unavailable from 1900 to 0200 on 12/15.
 - Changes scheduled to be available in Sandbox on 11/29.

TERM Enhancements

- New historical report for all submitted TERM bulk uploads.
- Report will allow submitted bulk upload files to be reviewed and downloaded.
 - Individual ticket information will also be available for files that have been processed by PJM.

A screenshot of the "TERM Main Menu" web interface. The menu is organized into several sections. At the top, under "TERM Main Menu", are buttons for "Create New Ticket", "View/Revise Tickets", "Bulk Upload", "Adjust R, X, B", "Adj. Monitored Status", and "Effective Ratings". Below this is the "TERM Reports" section, which includes buttons for "Status Reports", "Recently Restored", "History Report", "R, X, B Adjust Report", "Adj. Monitored Status Report", and "Historical Bulk Report". The "Historical Bulk Report" button is highlighted with a red rectangular border. Underneath the reports are summary statistics for "Submitted Tickets" (Submitted: 63/62, Revised: 11/2, Received: 10/10), "Approved Tickets" (Temporary: Approved: 0/0, Implemented: 1/0; Permanent: Approved: 1/1, Implemented: 394/208), "R, X, B Adjustment" (Submitted: 0/7), and "Monitored Status" (Submitted: 1). At the bottom, under "Notification Reports", are buttons for "Ack. Required", "Notifications Report", and "Notifications Request Form", with a notification count of 632.

Historical Bulk Report							
Company		Company Submitted			PJM Processed		
Energy Company		From: 05/11/2011	To: 11/11/2011	From: 05/11/2011	To: 11/11/2011		
		(MM/DD/YYYY)	(MM/DD/YYYY)	(MM/DD/YYYY)	(MM/DD/YYYY)		
Apply Filter				Main Menu			
Bulk ID	Company	File Name	Group Name	Submitted Timestamp	PJM Timestamp	Tickets	File Download
585	Energy Company	miketest2.xls	dennistest	08/12/2011 14:29	08/12/2011 14:56	View	Download
584	Energy Company	miketest2.xls		08/12/2011 14:28			Download
583	Energy Company	miketest2.xls		08/12/2011 14:28			Download
582	Energy Company	miketest2.xls	sdafafs	08/12/2011 14:24	08/12/2011 14:25	View	Download
581	Energy Company	miketest2.xls		08/12/2011 14:21			Download

- Report is searchable based on the company submittal date or by PJM processed date. Dates ranges are defaulted to the past 6 months.
- The raw MS Excel file can be downloaded by hitting the Download link.
- Details for all the tickets created for an upload can be viewed by clicking the View link under Tickets.

View/Revise Report											
<i>Number of rows in report is limited to 500 rows.</i>											
Apply Filter						Main Menu					
1											
Ticket ID	Group Name	Company	Ticket Status	Type	Station	Voltage	Equip. Name	End	Est. Start	Est. End	Timestamp
26364	dennistest	Company	Cancelled by PJM	XFMR	XFMR	138 KV	XFORMER	HIGH	08/13/2011 12:00		09/14/2011 14:59
Go To Filter						Main Menu					

- Tickets for the selected bulk upload are displayed in the View/Revise report format.
- Individual ticket details can be viewed by clicking on the ticket ID link.

New TERM Ticket

User: zhangm Company: []

Reason for Changes: Bec []

Comments: []

Date (MM/DD/YY) 11/11/11 Hour (HH24:MI) 00:00

Est. Start: [] Est. End: []

Type: LINE Station Name: LINE Voltage: 69 KV Equipment Name: LINE End: END A

Temp	Normal		Long Term		Short Term		Load Dump	
	Day	Night	Day	Night	Day	Night	Day	Night
95	1000	1001	907	906	905	904	903	902
86	809	808	807	806	805	804	803	802
77	709	708	707	706	705	704	703	702
68	609	608	607	606	605	604	603	602
59	509	508	507	506	505	504	503	502
50	409	408	407	406	405	404	403	402
41	309	308	307	306	305	304	303	302
32	12	12	207	207	205	205	3	4

Impedance/Charging:
R = 0.026794 X = 0.191068 B = 0.01235

Congestion Mngt. Priority:
Not monitored, no status

Adj. %:
[] Apply

Submit Form
Default Ratings
% of Change
Main Menu

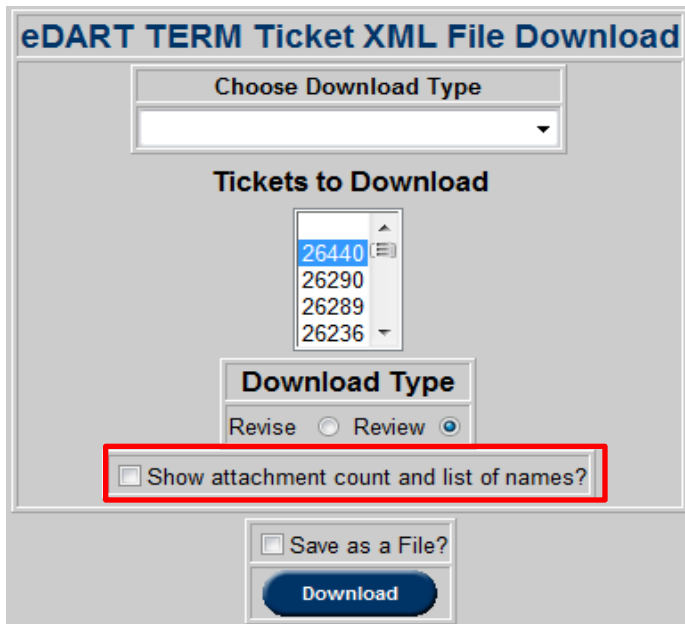
Message from webpage

The Short Term and Long Term ratings are not equal for all temperatures, please verify.

OK
Cancel

- New TERM ticket submission warning for tickets where Long Term Emergency ratings are different from Short Term Emergency ratings for any given temperature set.
- Ticket can still be submitted by hitting the OK button but PJM generally operates to one emergency rating.

- New tags added to TERM ticket download:
 - `<fileAttachmentCount>`: number of files attached to the ticket.
 - `<fileList>`: names and timestamps for all attached files.

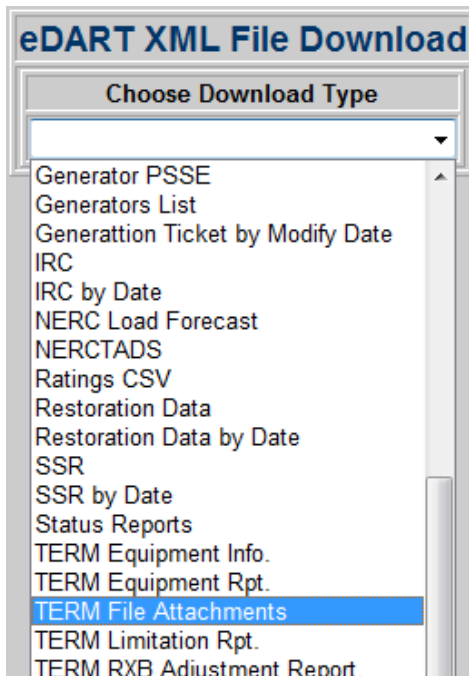


```

</limitations>
<fileAttachmentCount>1</fileAttachmentCount>
- <fileList>
- <file>
  <fileName>Test Line - Test Branch 230 kV Coordinated.xls</fileName>
  <fileTimestamp>2011-10-24 18:01:45</fileTimestamp>
</file>
</fileList>
</reviewtermtic>
</edart>

```

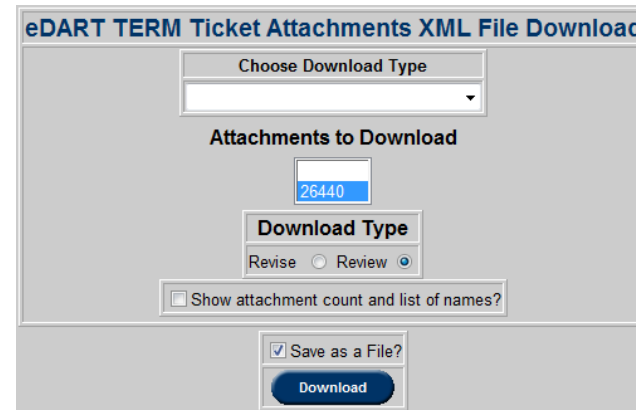
- The TERM File Attachments download lists only tickets with attached files.



eDART XML File Download

Choose Download Type

- Generator PSSE
- Generators List
- Generattion Ticket by Modify Date
- IRC
- IRC by Date
- NERC Load Forecast
- NERCTADS
- Ratings CSV
- Restoration Data
- Restoration Data by Date
- SSR
- SSR by Date
- Status Reports
- TERM Equipment Info.
- TERM Equipment Rpt.
- TERM File Attachments**
- TERM Limitation Rpt.
- TERM RXB Adjustment Report.



eDART TERM Ticket Attachments XML File Download

Choose Download Type

Attachments to Download

26440

Download Type

Revise Review

Show attachment count and list of names?

Save as a File?

Download

```

</limitations>
<fileAttachmentCount>1</fileAttachmentCount>
- <fileList>
- <file>
  <fileName>Test Line - Test Branch 230 kV Coordinated.xls</fileName>
  <fileTimestamp>2011-10-24 18:01:45</fileTimestamp>
</file>
</fileList>
</reviewtermtic>
</edart>

```

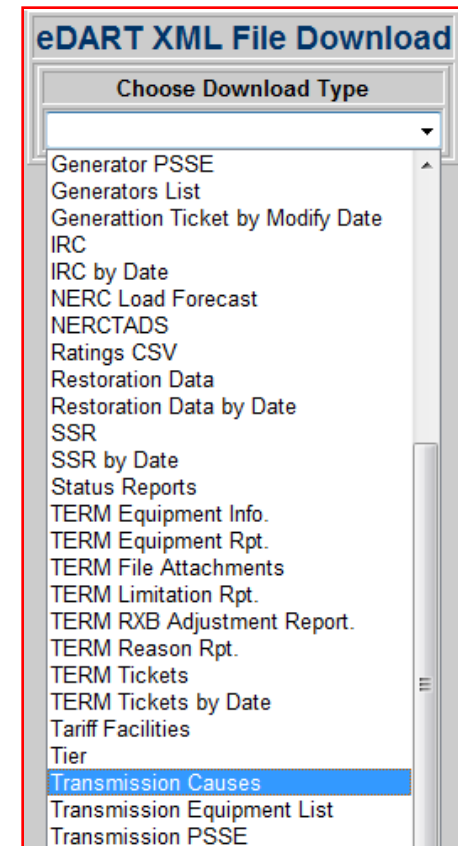
- The history report will now be sorted in descending order of the ticket ID.
- Companies being granted Y notification access will now be able to view all tickets for the facility.
 - Companies could only view tickets that were submitted after the date Y access was granted previously.
- Sorting functionality has been added to the Status, View/Revise, and Recently Restored reports.

QUESTIONS

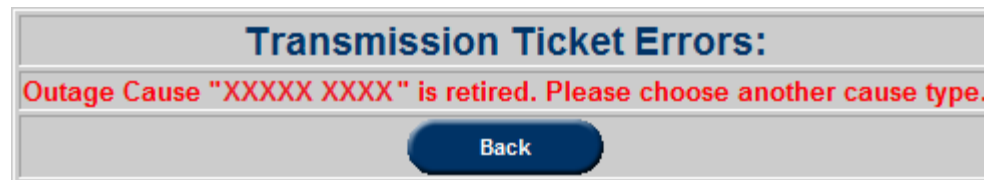


Transmission Outage Tickets Enhancements

- Certain transmission outage cause types have been retired.
 - New tickets cannot be created with retired cause type(s).
 - Users can download most recent Cause List from eDART.



- Revisions to tickets with retired cause types will require user to change cause type.



- Retired cause types as of December 2011 will be:
 - Relay Maintenance (3)
 - Relay Replacement (4)

- Background
 - NERC TADS requires reporting for Auto Re-Close tickets.
 - eDART has a job that runs every 10 minutes to capture EMS Tripped outages. This job does not catch scenarios where a line trips and re-closes in-between the job runtimes.
 - New functionality for users to enter tickets for Auto Re-Close outages (completed EMS Tripped outages lasting ≤ 10 minutes).

- Automatic Re-Close set to „Yes“ for a ticket only if:
 - Outage Type = EMS Tripped (can now be selected)
 - Note: EMS Tripped can only be selected for Auto Re-Close tickets.
 - Ticket End date is in the past.
 - Ticket End – Ticket Start \leq 10 minutes.
- Auto Re-Close outage tickets can be entered for up to 2 years in the past.

- On submission, Auto Re-Close tickets are set to the status of “Complete”. Three records will be inserted into the History Log for the status of „Submitted”, „Active” and „Completed” with the user ID of the user who submitted the ticket.
- On revision transmission tickets, the new Automatic Re-Close field will display „Yes” or „No”: denoting if the ticket is an Auto Re-Close or not.

Transmission Ticket History Log		
Ticket ID: 61417		
User Name	Status	Timestamp
egbuoc	Completed	11/11/2011 13:23
egbuoc	Active	11/11/2011 13:23
egbuoc	Submitted	11/11/2011 13:23

[Close Window](#)

Review/Revise Transmission Ticket

User: egbuoc **Company:** Electric Company
Status: Completed **Ticket ID:** 61417

Company Ticket ID: EMS Trip

Ticket Start		Ticket End		Switch Date	
10/28/11	11:00	10/28/11	11:05	10/28/11	11:00
<small>Date (mm/dd/yy)</small>	<small>Hour (hh24:mi)</small>	<small>Date (mm/dd/yy)</small>	<small>Hour (hh24:mi)</small>	<small>Date (mm/dd/yy)</small>	<small>Hour (hh24:mi)</small>

Location/Description of Work (500 characters max)

Auto Re-close

PJM Comments

Information/Hotline Work

Emergency

Vegetation Trip

Cut In

Congestion Expected: No

Submitted On-Time: No

Market Sensitive: Yes

Automatic Re-Close: Yes

Ticket History

	Time Stamp	Usr. Name
Submitted	11/11/2011 13:23	egbuoc
Received		
Approval		
Latest Revision		

Outage Type

EMS Tripped

Availability

Immediate

Cause

Add SF-6 Gas

Cable Repair

Contingency Planning

Cut-in

Disconnect/Ground Sw. Maintenance

Doble Test

NERC-TADS

Planned: N/A

Operational: Emergency

[NERC-TADS Reports](#)

[Print Version](#)
 [Date Time Log](#)
 [History Log](#)
 [Notifications Log](#)
 [Duplicate Ticket](#)

Tier 1
 Tier 2
 Tier 3
 [Gen. Outage Lookup](#)
 [Comments Log](#)
 [Main Menu](#)

Status	Include	Type	Station Name	Voltage	Equipment Name	Start Date	Start Hour	End Date	End Hour
O	Yes	LINE	STATION A	230 KV	LINE ABC 555 230	10/28/11	11:00	10/28/11	11:05

- New NERC-TADS reports for auto-reclose outages will be available.
 - Reports 4.1, 4.2 and 4.3 will be similar to Reports 6.1, 6.2 and 6.3 respectively but will only contain auto-reclose outages.
 - AC Circuit Automatic Outages (4.1) – AC Line auto-reclose outages 200kv+
 - DC Circuit Automatic Outages (4.2) – DC Line auto-reclose outages 200kv+
 - Transformer Automatic Outages (4.3) – Transformer auto-reclose outages for high side 200kv+
 - The downloaded reports can be saved in XML format and posted on the NERC TADS website.

NERC-TADS Report

Company: **Electric Company** User ID: **egbuoc**

Ticket ID: Company Ticket ID: From Month: **Nov** ▼ To Month: **Nov** ▼ Year: **2011**

Report 4.1 Report 4.2 Report 4.3
 Report 6.1 Report 6.2 Report 6.3

Note: This data will be retrieved in EPT

Display
Download
Refresh
Main Menu

4.1 AC Circuit Automatic Outages

Outage ID Code	Voltage Class	AC Substation Name #1	To Element Identifier (AC Circuit)	OH or UG	Automatic Outage Type	Start Time	Outage Duration HHHH:MM	Planned Outage Cause Code	Operational Outage Cause Code	Outage Continuation Code
Continue										

4.2 DC Circuit Automatic Outages

Outage ID Code	Voltage Class	AC/DC Terminal Name #1	To Element Identifier (DC Circuit)	OH or UG	Automatic Outage Type	Start Time	Outage Duration HHHH:MM	Planned Outage Cause Code	Operational Outage Cause Code	Outage Continuation Code
Continue										

4.3 Transformer Automatic Outages

Outage ID Code	High-Side Voltage Class	Located at (AC Sub. Name)	To Element Identifier (Transformer)	Automatic Outage Type	Start Time	Outage Duration HHHH:MM	Planned Outage Cause Code	Operational Outage Cause Code	Outage Continuation Code
Continue									

- The NERC-TADS Ticket Update form can be used to mark existing tickets as Auto Re-Close but tickets must be for EMS Trip outages lasting less than 10 minutes.

NERC-TADS Ticket Update
Result Set is limited to 100 rows.

Ticket Status: Submitted Received Approved Revised Active Cancelled Completed

Awaiting NERC-TADS Data: Ticket ID: Company Ticket ID: From Month: Oct To Month: Oct Year: 2011

Apply Filter

								NERC-TADS Data		
Ticket ID	Company Ticket ID	Ticket Status	Station	Voltage	Equipment	Start Date	End Date	Automatic Re-Close	Planned Outage Cause	Operational Outage Cause
61052		Completed	STATION A	115 KV	EQUIPMENT 1	01/18/2010	01/18/2010	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
61385		Completed	STATION A	230 KV	EQUIPMENT 2	04/19/2010	04/19/2010	Yes	<input type="text"/>	<input type="text"/>
60374		Revised	STATION A	230 KV	EQUIPMENT 3	04/19/2010	04/20/2010		<input type="text"/>	<input type="text"/>

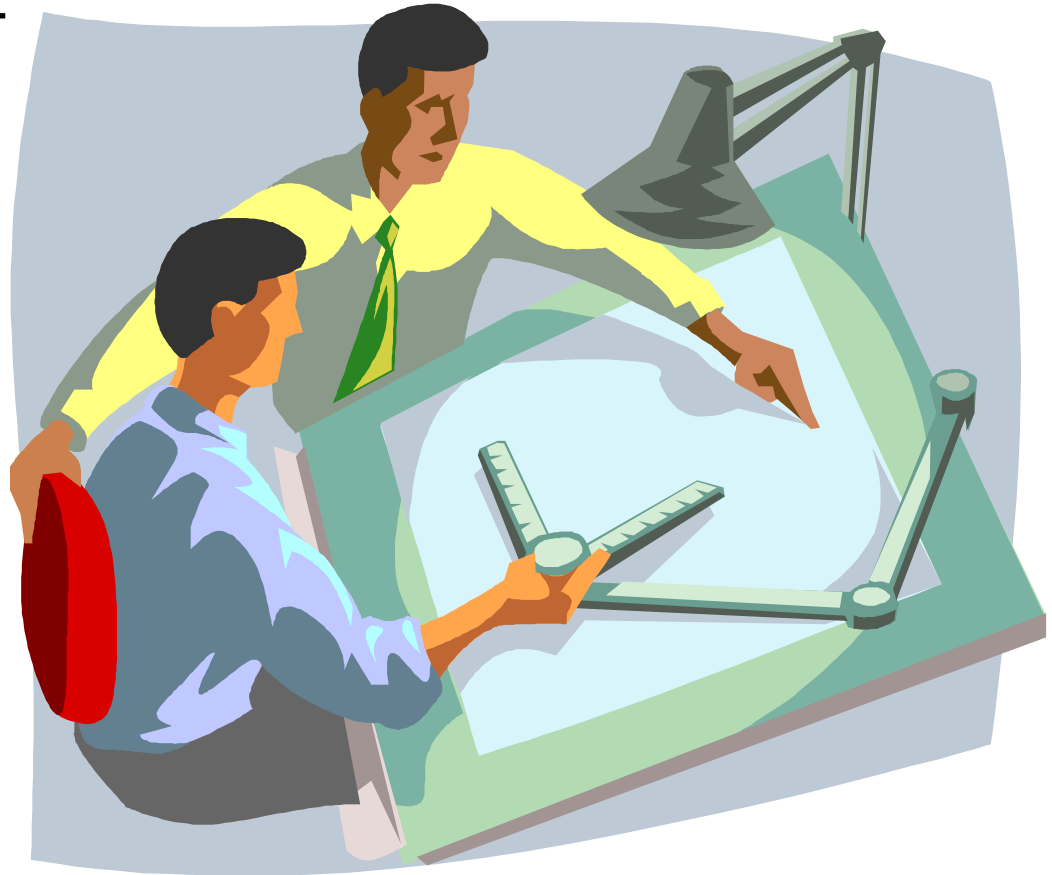
QUESTIONS



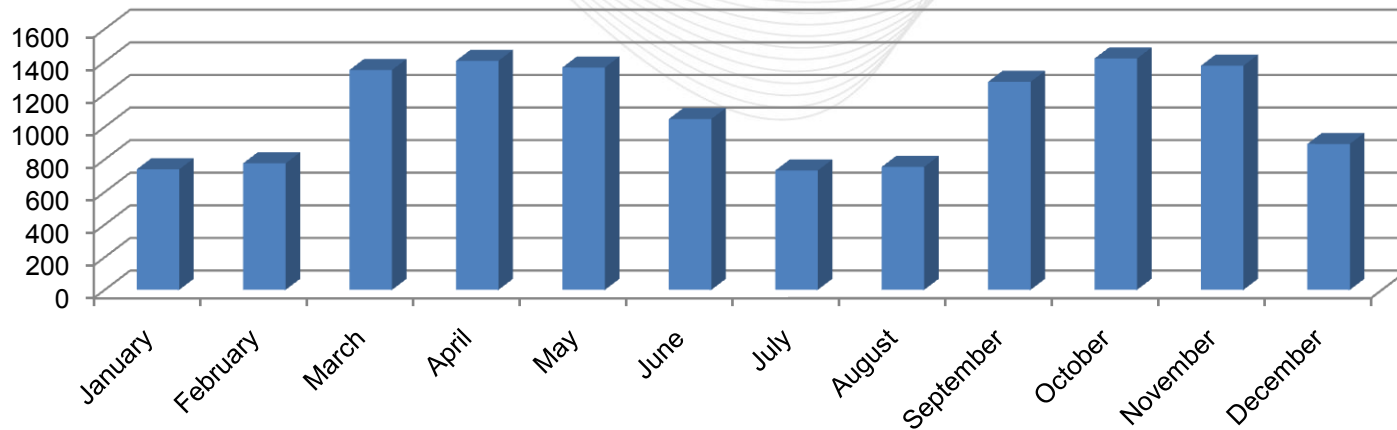
Future Conflict Analyzer Functionality

- Please remember what will be shown is in the early conceptual design phase. More to come ...

DRAFT



Tickets Started*



- Many outages scheduled each day by many schedulers
- Certain facilities should never be out at the same time regardless of system conditions
- Outages reviewed during PJM study process
- Better if identified immediately upon submission

*Completed transmission outage tickets excluding EMS Trips started per month in 2010 as stored in eDART as of 11/11/11

- New functionality scheduled to identify outage combinations that should never occur

Conflicting Identifier Facility Scenario Setup

Category: Title:

Category: Title:

Active:

Comments:

Primary Facility

	Zone	Type	Station	Voltage	Equip. Name
<input type="button" value="Remove"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Transmission Facility

	Zone	Type	Station	Voltage	Equip. Name
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Conflicting Identifier Group Scenario Setup

Category: Title:

Category: Title:

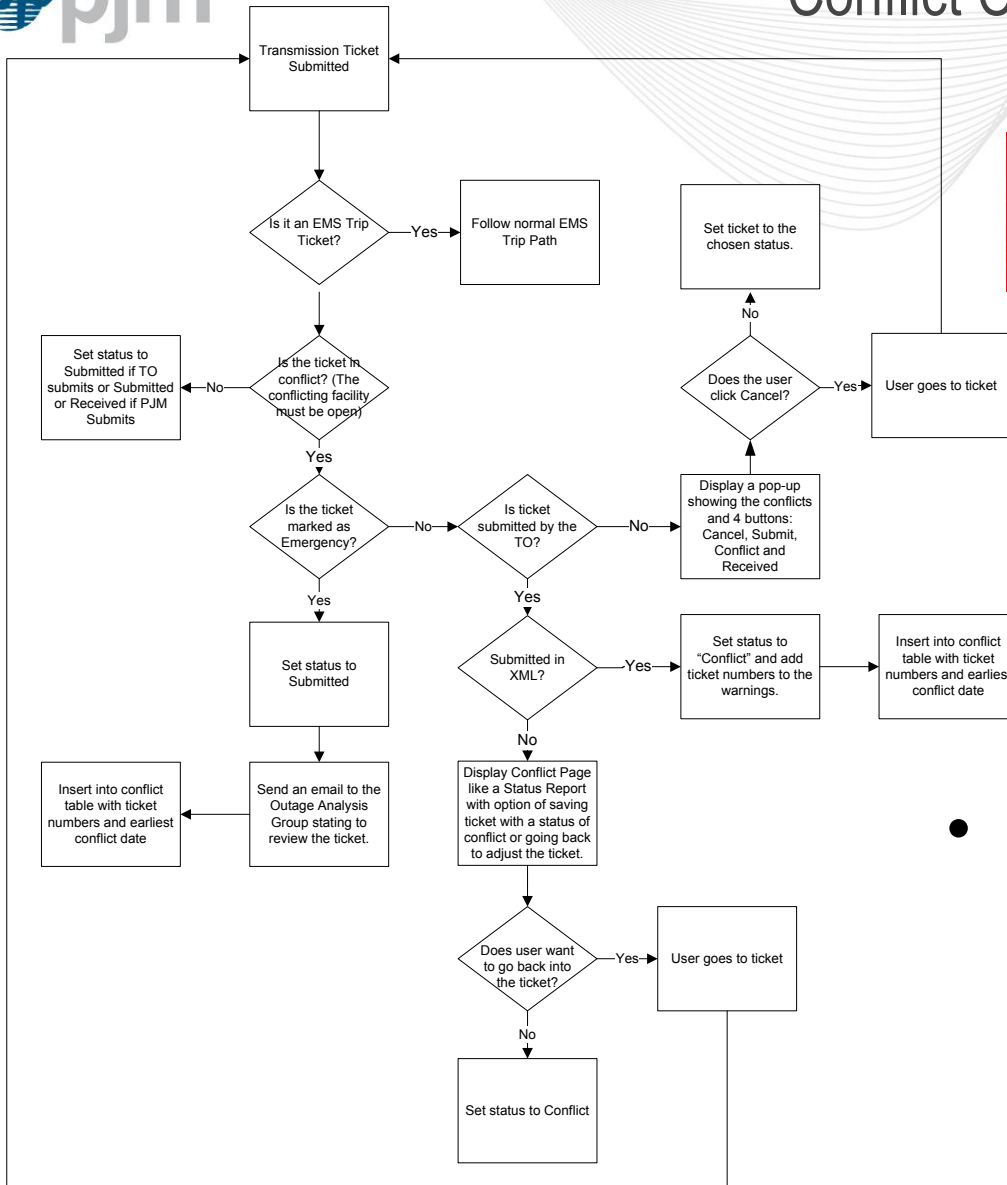
Allowed Out: Active:

Comments:

Transmission Facility

	Zone	Type	Station	Voltage	Equip. Name
<input type="button" value="Remove"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- Initial source PJM Planning Studies



Review/Revise Tickets										
Apply Filter Go to Filter Color Legend										
Ticket ID	Company Ticket ID	Ticket Status	Company	Station	Voltage	Equipment	Start Date	End Date	Timestamp	Submit On Time
62404		Conflicted	GPU Energy	ALBURTIS	230 KV	ALBURTIS 1B42 CB	10/04/2003 10:00	10/05/2003 00:00	10/03/2003 11:43	No
62225		Cancelled by Company	GPU Energy	ATLANTIC	34 KV	ATLANTIC CAP1 CB	07/06/2004 00:00	07/10/2004 00:00	07/01/2004 12:45	No

Color Legend

Congestion Expected

Conflicts

EMS Tripped

System Impacts

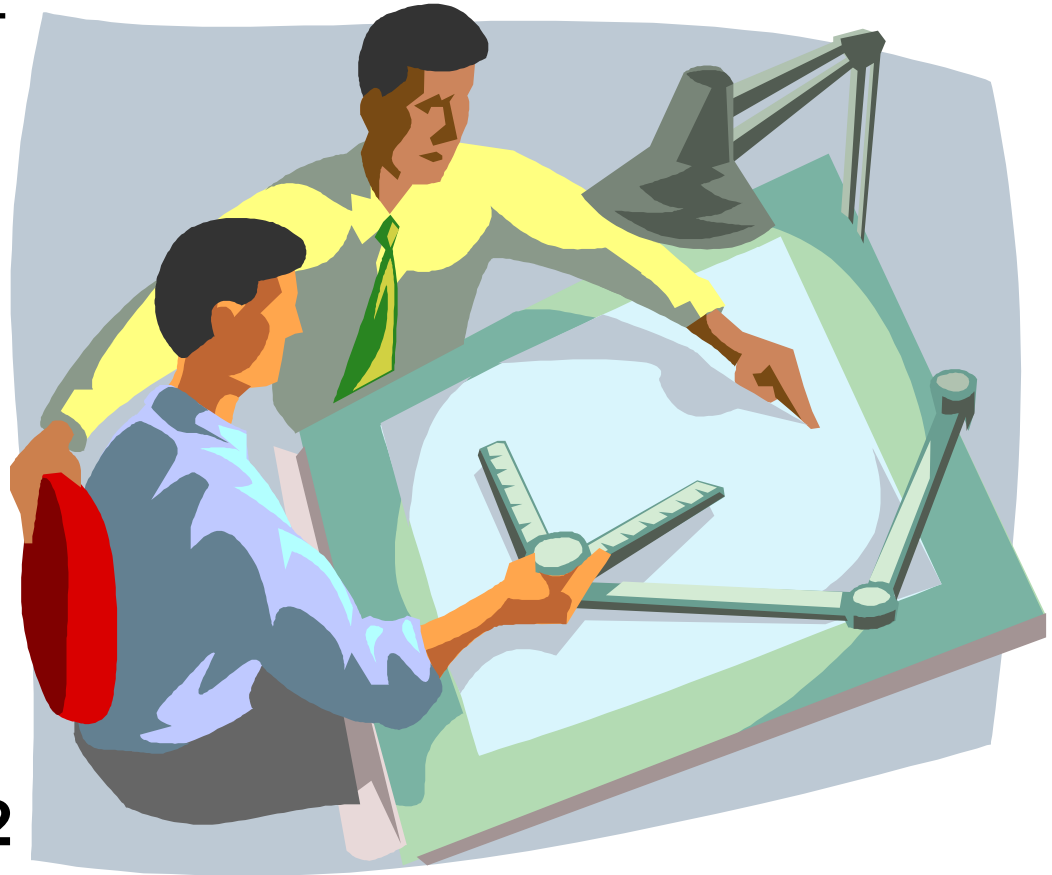
Regular

Close Window

- If schedule submitted violating a scenario immediate feedback would be provided

- Please remember has been shown is in the early conceptual design phase. More to come ...

DRAFT



Coming 2nd Quarter 2012

QUESTIONS

