



eDART Users Group Meeting

01/25/2012

- **January Release (01/19)**
 - Transmission Outage Ticket - NERC TADS Reporting Functionality
 - TERM - Ticket Download Change
- **February Releases**
 - Transmission Outage Ticket – Submit On-Time Changes (2/15)
 - Telemetry – Post AC2 Reinstatement (2/29)
- **March Release**
 - Transmission Outage Ticket – New Potentially Incomplete Flag
- **May Release**
 - Transmission Outage Ticket – Conflicting Outage Functionality



January 19, 2012 eDART Release

- Auto Reclose functionality enhancements for NERC TADS 4.1, 4.2 and 4.3 reports
- XML Only Submissions
- TERM Ticket Downloads

- New NERC TADS fields for automatic outages displayed when creating an auto reclose ticket.
 - Only for companies that opted to use the NERC TADS functionality in eDART.

Outage Type EMS Tripped ▼		Availability Immediate ▼	
Type	Station Name	Voltage Equipment Name	
 ▼	 ▼	 ▼	

NERC-TADS	
Shared Common Structure:	<input type="checkbox"/>
Fault Type:	P-P fault ▼
Outage Initiation Code:	Other Element-Initiated ▼
Initiation Cause Code:	Failed AC/DC Terminal Equipment ▼
Sustained Cause Code:	Failed AC/DC Terminal Equipment ▼
Outage Mode Code:	Dependent Mode ▼

Tier 1
 Tier 2
 Tier 3

Station Equip.
Main Menu

- NERC TADS information for automatic outages added on revision ticket.

Location/Description of Work (500 characters max)

auto reclose ticket for AC line
4.1 report

PJM Comments

Information/Hotline Work

Emergency

Vegetation Trip

Cut In

Congestion Expected: No

Submitted On-Time: No

Market Sensitive: No

Automatic Re-Close: Yes

Cause

- Add SF-6 Gas
- C.B. Overhaul
- C.B. Replacement
- CB Maintenance
- Cable Repair
- Contingency Planning
- Cut-in
- Disconnect/Ground Sw. Maintenance**
- Doble Test
- Emergency
- Excludable Outage
- External

Ticket History

	Time Stamp	Usr. Name
Submitted	01/09/2012 19:05	egbuoc
Received		
Approval		
Latest Revision		

Outage Type

EMS Tripped

Availability

Immediate

NERC-TADS

Shared Common Structure:

Fault Type: Unknown fault type

Outage Initiation Code: Element-Initiated

Initiation Cause Code: Other

Sustained Cause Code: Other

Outage Mode Code: Single Mode

Tier 1
 Tier 2
 Tier 3

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- The NERC-TADS Ticket Update form has been enhanced to allow update to auto-reclose TADS data on previously submitted tickets.
 - „View“ opens another window for data entry.

NERC-TADS Ticket Automatic Re-Close Update

Shared Common Structure:

Fault Type: **P-P-G, 3P or 3P-G fault** ▼

Outage Initiation Code: Other Element-Initiated ▼

Initiation Cause Code: Other ▼

Sustained Cause Code: Human Error ▼

Outage Mode Code: Dependent Mode ▼

Submit **Refresh** **Back to Report**

NERC-TADS Ticket Update

Result Set is limited to 100 rows.

Ticket Status: Submitted Received Approved Revised Active Cancelled Complete

Awaiting NERC-TADS Data: Ticket ID: Company Ticket ID: From Month: Dec

Apply Filter

Ticket ID	Company Ticket ID	Ticket Status	Station	Voltage	Equipment	Start Date	End Date	Automatic Re-Close	Planned Outage Cause	Operational Outage Cause
61482	XFMR Auto Reclose	Completed		230 KV	STATION A EQUIP A1 XFORMER	12/13/2011	12/13/2011	Yes	View	
61441		Submitted		230 KV	STATION B EQUIP B1 XFORMER	12/03/2011	12/10/2011		Third Party Request ▼	System Voltage ▼

Submit **Refresh** **Main Menu**

- NERC TADS information for automatic outages added on outage report.

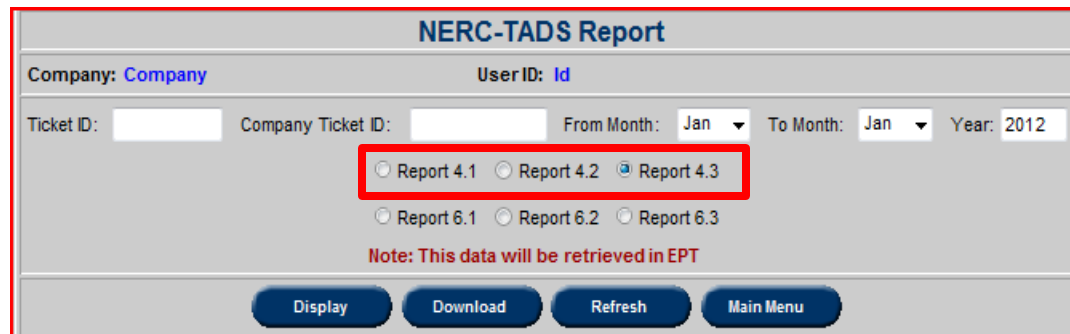
Tickets Outage Report

Ticket ID	Company Ticket ID	Ticket Start Date	Ticket End Date	Availability	Emergency	Information	Company	Outage Type	Status
1									

Ticket ID:	212513	Company:	Energy Company	Type:	BRKR	Station:	STONE	Voltage:	230 KV	Equipment:	STONE 230-1 CB
Company Ticket ID:	Test for 4.1	Status:	Completed		BRKR	STONE	230 KV				STONE 230-2 CB
Ticket Start:	03/03/2011 11:13	Ticket End:	03/03/2011 11:20		LINE	STONE	230 KV				STONE-MTSTONE 230-112
Availability:	Immediate	Outage Type:	EMS Tripped		LINE	STONE	345 KV				STONE-ROCK 345-11
Emergency:	No	Information:	No								
Congestion Expected:	No	Submitted On-Time:	No								
Cause:	Disconnect/Ground Sw. Maintenance										
Description:	<div style="border: 1px solid gray; padding: 2px;"> auto reclose ticket for AC line 4.1 report </div>										

Shared Common Structure: Yes	Fault Type: Unknown fault type
Outage Initiation Code: Other Facility-Initiated	Initiation Cause Code: Weather, excluding lightning
Sustained Cause Code: Contamination	Outage Mode Code: Common Mode Initiating

- Additional fields included in the NERC TADS reports downloads for auto-reclose outages.
 - Report 4.1: AC Circuit Automatic Outages (200 kV+)
 - Report 4.2: DC Circuit Automatic Outages (200 kV+)
 - Report 4.3: Transformer Automatic Outages (high side, 200 kV+)
- The downloaded reports can be saved in XML format and posted on the NERC TADS website.



The screenshot shows the 'NERC-TADS Report' interface. It includes fields for 'Company: Company', 'User ID: Id', 'Ticket ID', 'Company Ticket ID', 'From Month: Jan', 'To Month: Jan', and 'Year: 2012'. Below these fields, there are radio button options for 'Report 4.1', 'Report 4.2', 'Report 4.3', 'Report 6.1', 'Report 6.2', and 'Report 6.3'. The 'Report 4.3' option is selected and highlighted with a red box. At the bottom, there are buttons for 'Display', 'Download', 'Refresh', and 'Main Menu'. A note at the bottom states: 'Note: This data will be retrieved in EPT'.

4.1 AC Circuit Automatic Outages

Outage ID Code	Voltage Class	AC Substation Name #1	To Element Identifier (AC Circuit)	OH or UG	Start Time	Outage Duration HHHH:MM	Shared Common Structure	Fault Type	Outage Initiation Code	Initiation Cause Code:	Sustained Cause Code	Outage Mode Code	Outage Continuation Code
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4.2 DC Circuit Automatic Outages

Outage ID Code	Voltage Class	AC/DC Terminal Name #1	To Element Identifier (DC Circuit)	OH or UG	Start Time	Outage Duration HHHH:MM	Fault Type	Outage Initiation Code	Initiation Cause Code:	Sustained Cause Code	Outage Mode Code	Outage Continuation Code
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4.3 Transformer Automatic Outages

Outage ID Code	High-Side Voltage Class	Located at (AC Sub. Name)	To Element Identifier (Transformer)	Start Time	Outage Duration HHHH:MM	Fault Type	Outage Initiation Code	Initiation Cause Code:	Sustained Cause Code	Outage Mode Code	Outage Continuation Code
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Column	Translation	4.1	4.2	4.3
Outage ID Code	eDART Ticket Number	X	X	X
Voltage Class	Voltage	X	X	
High-Side Voltage Class	Voltage			X
AC Substation Name #1	Station Name	X		
AC/DC Terminal Name #1	Station Name		X	
Located at (AC Sub. Name)	Station Name			X
TO Element Identifier(AC Circuit)	Equipment Name	X		
TO Element Identifier(DC Circuit)	Equipment Name		X	
TO Element Identifier(Transformer)	Equipment Name			X
OH or UG	Overhead or Underground	X	X	
Start Time	Start Time combination of Active Log and Equipment Start	X	X	X
Outage Duration HHHH:MM	Active Log/Equipment End Date – Active Log/Equipment Start Date	X	X	X
Shared Common Structure	0 – circuit is not on common structures with another circuit. 1 – circuit is on common structures with another circuit.	X		
Fault Type	Fault Type	X	X	X
Outage Initiation Code	Outage Initiation Code	X	X	X
Initiation Cause Code	Initiation Cause Code	X	X	X
Sustained Cause Code	Sustained Cause Code	X	X	X
Outage Mode Code	Outage Mode	X	X	X



TADS Report Column Translation to eDART with XML

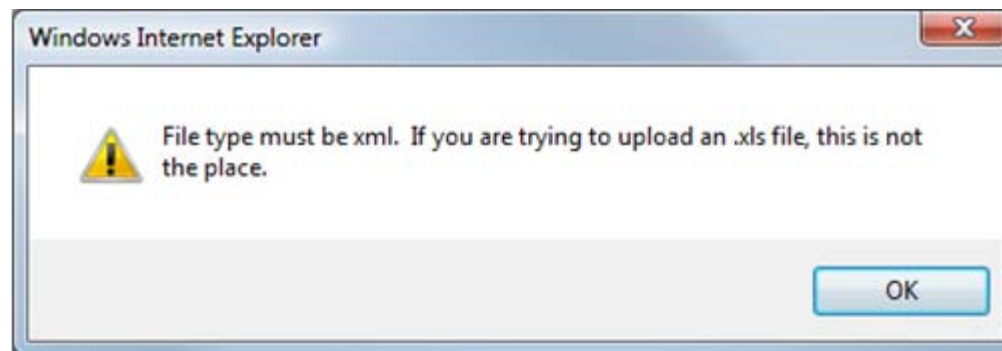
Column	Translation	4.1	4.2	4.3	TADS XML TAGS
Outage ID Code	eDART Ticket Number	X	X	X	OutageIDCode
Voltage Class	Voltage	X	X		VoltageClassCodeName
High-Side Voltage Class	Voltage			X	VoltageClassCodeName
AC Substation Name #1	Station Name	X			SubstationTerminalName1
AC/DC Terminal Name #1	Station Name		X		SubstationTerminalName1
Located at (AC Sub. Name)	Station Name			X	SubstationTerminalName1
TO Element Identifier(AC Circuit)	Equipment Name	X			ElementIdentifierName
TO Element Identifier(DC Circuit)	Equipment Name		X		ElementIdentifierName
TO Element Identifier(Transformer)	Equipment Name			X	ElementIdentifierName
OH or UG	Overhead or Underground	X	X		OHUGName
Start Time	Start Time combination of Active Log and Equipment Start	X	X	X	OutageStartDT
Outage Duration HHHH:MM	Active Log/Equipment End Date – Active Log/Equipment Start Date	X	X	X	OutageDurationNbr
Shared Common Structure	0 – circuit is not on common structures with another circuit. 1 – circuit is on common structures with another circuit.	X			SharedCommonStructure
Fault Type	Fault Type	X	X	X	FaultType
Outage Initiation Code	Outage Initiation Code	X	X	X	OutageInitiationCodeName
Initiation Cause Code	Initiation Cause Code	X	X	X	InitiationCauseCodeName
Sustained Cause Code	Sustained Cause Code	X	X	X	SustainedCauseCodeName
Outage Mode Code	Outage Mode	X	X	X	OutageModeCodeName

QUESTIONS



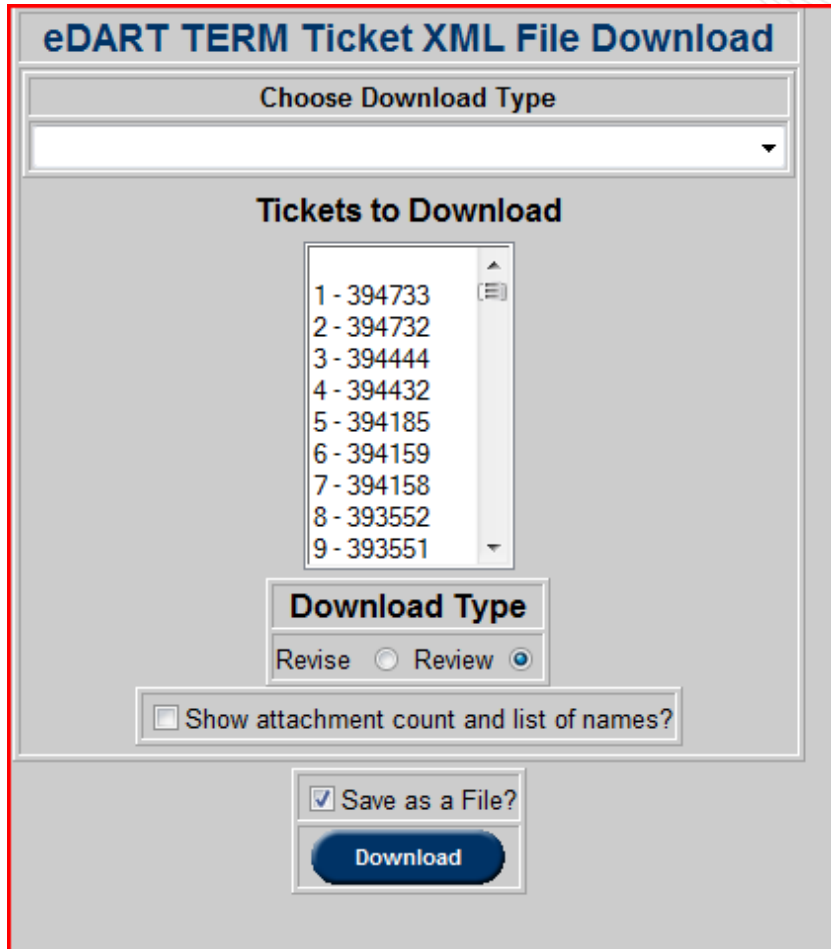
- ✓ Auto Reclose functionality enhancements for NERC TADS 4.1, 4.2 and 4.3 reports
- XML Only Submissions
- TERM Ticket Downloads

- Only .xml files will be allowed to be submitted via the Upload screen accessed from the Main Menu.
 - Upload of non-XML files should be done through the respective application forms (e.g. TERM Bulk Upload, Blackstart files, Network Model documents).



- Existing issue when user tries to download a large number (in the hundreds of thousands) of tickets at the same time.
- Solution:
 - TERM downloads will be received as a zip file
 - A threshold/limit is set to 1000 TERM tickets per download. If this is exceeded, number of tickets returned will be adjusted to be below or equal to the threshold.
 - Warning message displayed if user tries to download more than the allowed number of tickets at the same time.

```
<?xml version="1.0" encoding="UTF-8" ?>  
- <edart xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="termreview.xsd">  
  <warning>Due to excessive ticket count request, the number of tickets returned will be X instead of requested amount of Y</warning>
```



eDART TERM Ticket XML File Download

Choose Download Type

Tickets to Download

- 1 - 394733
- 2 - 394732
- 3 - 394444
- 4 - 394432
- 5 - 394185
- 6 - 394159
- 7 - 394158
- 8 - 393552
- 9 - 393551

Download Type

Revise Review

Show attachment count and list of names?

Save as a File?

Download

- A counter has been added to track the number of tickets available for download.
- Window of ticket IDs has been extended to show a larger range of tickets at once.

QUESTIONS





February 2012 eDART Releases

- February 15th Submit On-Time Calculation Changes
- February 29th Telemetry Application Reinstatement

- Transmission Owners shall use reasonable efforts to submit Transmission Planned Outage schedules one year in advance but are required to submit no later than the first of the month six months in advance of the requested start date for all outages that are expected to exceed five working days duration.
- Transmission Owners are required to provide notice of all transmission outages by the first day of the month preceding the month of the outage.

- 1-month rule: Transmission Owners are required to provide notice of all transmission outages five days or less by the first day of the month preceding the month of the outage.
 - A 5-day outage starting in June, 2012 must be submitted by 23:59 on April 30, 2012 to be on time.

On Time						5-day outage							
Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

- 6-Month Rule:** “The TO is required to submit all outage requests in excess of 5 days in duration by the 1st of the month six months in advance of the start of the outage .” M03
 - If a 6-day outage begins in October, the outage must be submitted by 23:59 on March 31 to be on time.

On Time										6-day outage		
Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

- 30-Day Rule: “Outages scheduled for the following Planning year (i.e. June 1 – May 31) exceeding 30 days in duration are to be submitted via eDART by February 1 for use in the annual FTR auction unless the 6-month rule is more restrictive.” M03
 - An outage greater than 30 days starts in September 2012. It must be submitted by:
 - a) 6-month rule: Must be submitted by February 29, 2012 @ 23:59
 - b) 30-day rule: Must be submitted by January 31, 2012 @ 23:59
 - Since the 30-day rule is more restrictive, (b) is the correct choice. The 30-day rule applies.

- If On Time & scheduled outage is ≤ 5 days:
 - and the revised outage request will occur entirely during the originally scheduled month, it will retain its on-time status if applicable.
 - and the revised outage request will occur during a different month, the revision must be submitted by the first of the month prior to the revised month in which the outage will take place to be considered on time.

- If On Time & outage > 5 days:
 - and the revised outage request will occur entirely during the originally scheduled month, it will retain its on time status if applicable.
 - and the outage request moves to a new month which is further out into the future, the revision must be submitted by the first of the month prior to the revised month in which the outage will take place to be considered on time.
 - and the outage request moves to a new month which is nearer to the current date, the revision must be submitted by the first of the month six (6) months prior to the revised month in which the outage will take place to be considered on time.

- If Submitted On Time is “No”, a comment will be displayed with the date/time the ticket should have been submitted to be considered on time.
- Comment also displayed on the ticket print version.

Review/Revise Transmission Ticket

User: _____ **Company:** _____
Status: _____ **TicketID:** _____

Company Ticket ID: 11/7/11

Ticket Start		Ticket End		Switch Date	
12/01/11	08:00	12/05/11	16:00	12/01/11	08:00
<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>

<p>Location/Description of Work (500 characters max)</p> <div style="border: 1px solid gray; height: 40px; width: 100%;"></div> <p>PJM Comments</p> <div style="border: 1px solid gray; height: 40px; width: 100%;"></div>	<p>Information/Hotline Work <input type="checkbox"/></p> <p>Emergency <input type="checkbox"/></p> <p>Vegetation Trip <input type="checkbox"/></p> <p>CutIn <input type="checkbox"/></p> <p>Congestion Expected: No</p> <p>Submitted On-Time: No</p> <p>Market Sensitive: No</p> <p>Automatic Re-Close: No</p>	<p style="text-align: center;">Ticket History</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Time Stamp</th> <th>Usr. Name</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Submitted</td> <td>11/07/2011 12:39</td> <td></td> </tr> <tr> <td style="text-align: center;">Received</td> <td>11/07/2011 12:40</td> <td></td> </tr> <tr> <td style="text-align: center;">Approval</td> <td>11/29/2011 12:08</td> <td></td> </tr> <tr> <td style="text-align: center;">Latest Revision</td> <td>11/29/2011 07:42</td> <td></td> </tr> </tbody> </table>		Time Stamp	Usr. Name	Submitted	11/07/2011 12:39		Received	11/07/2011 12:40		Approval	11/29/2011 12:08		Latest Revision	11/29/2011 07:42	
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Latest Revision	11/29/2011 07:42																

This ticket has been locked by PJM. Please contact dispatch to have this ticket unlocked. Current time is XXX. For outages starting on YYY, the ticket needs to be submitted by ZZZ.

Outage Type	Availability	Cause
Continuous	Duration	Add SF-6 Gas C.B. Overhaul

- Submit On Time radio buttons added to the ticket and report selection forms.

Ticket Selection Form		
Company	Tickets / Notifications	Submit On Time
	<input checked="" type="radio"/> Tickets Only <input type="radio"/> Notifications Only	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Both
Ticket ID	Company Ticket ID	Emergency / Informational / Cut-in
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Emergency Only <input type="checkbox"/> Info Only <input type="checkbox"/> Cut-in Only
Outage Type	Availability	
Continuous Continuous - No Weekends Daily - Including Weekends Daily - No Weekends Daily - Weekends Only EMS Tripped	Immediate 30 min. 1 hr. 2 hr. 4 hr. 8 hr. Duration	
Ticket Status	Ticket Start (MM/DD/YY)	Ticket End (MM/DD/YY)
<input type="text"/>	From: <input type="text"/> To: <input type="text"/>	From: <input type="text"/> To: <input type="text"/>
<input type="button" value="Apply Filter"/> <input type="button" value="Main Menu"/>		

QUESTIONS



- ✓ February 15th Submit On-Time Calculation Changes
- February 29th Telemetry Application Reinstatement

- An e-mail report will be sent out when there are new telemetry points available or when points have been removed from outgoing links.
 - Attached report will include, addition/removal, equipment TA, element, and object ID information.
- Current and historical telemetry change reports will be available for download in CSV formation from the user interface.
- Any telemetry requests should still go through PJMTelemetrySupport@pjm.com.

- All telemetry points can be listed in the report and viewable by all qualified companies.
- Companies will no longer be able to request for new object IDs and access to telemetry points through the eDART Telemetry Application.
- Companies will no longer be able to create or adjust existing object IDs.
- The NA Build section has been removed entirely.

QUESTIONS





March 2012 eDART Release

- New ticket flag called „Potentially Incomplete“ to be added for transmission outage tickets highlighting ticket may need further review.
- Potentially Incomplete is „Yes“ if either:
 - PJM needs more information on the facilities to be added like in the case where only breakers or disconnects are in the ticket. PJM can manually update the flag.
 - More information is needed in the Description field.

- Potentially Incomplete tickets will remain in the status of Submitted until the flag is set to FALSE by PJM.
 - Users can cancel Potentially Incomplete tickets.
 - Functionality implemented in January release for PJM
- **Note: In February 15th release reasons for Potentially Incomplete to be noted in PJM Comments**

- Potentially Incomplete field added on revision ticket.

Review/Revise Transmission Ticket

User:	Company:				
Status:	Ticket ID:				
Company Ticket ID: 11/7/11					
Ticket Start		Ticket End		Switch Date	
12/01/11	08:00	12/05/11	16:00	12/01/11	08:00
<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>

<p>Location/Description of Work (500 characters max)</p> <div style="border: 1px solid gray; padding: 2px; min-height: 40px;">stone</div> <p>PJM Comments</p> <div style="border: 1px solid gray; padding: 2px; min-height: 40px;">Please include additional information in the work description.</div>	<p>Information/Hotline Work <input type="checkbox"/></p> <p>Emergency <input type="checkbox"/></p> <p>Vegetation Trip <input type="checkbox"/></p> <p>Cut In <input type="checkbox"/></p> <p>Potentially Incomplete: Yes</p> <p>Congestion Expected: No</p> <p>Submitted On-Time: No</p> <p>Market Sensitive: Yes</p> <p>Automatic Re-Close: No</p>	<p style="text-align: center;">Ticket History</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Time Stamp</th> <th>Usr. Name</th> </tr> </thead> <tbody> <tr> <td>Submitted</td> <td>11/07/2011 12:39</td> <td></td> </tr> <tr> <td>Received</td> <td>11/07/2011 12:40</td> <td></td> </tr> <tr> <td>Approval</td> <td>11/29/2011 12:08</td> <td></td> </tr> <tr> <td>Latest Revision</td> <td>11/29/2011 07:42</td> <td></td> </tr> </tbody> </table>		Time Stamp	Usr. Name	Submitted	11/07/2011 12:39		Received	11/07/2011 12:40		Approval	11/29/2011 12:08		Latest Revision	11/29/2011 07:42	
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- The Potentially Incomplete filed also added to the following forms:
 - Ticket Print Version
 - Tickets Active Tomorrow
 - Tickets Outage Report
 - Ticket Selection Form
 - Transmission Outage Report Selection

Transmission Outage Report Selection		
Company	Tickets / Notifications	Submit on Time
	<input checked="" type="radio"/> Tickets Only <input type="radio"/> Notifications Only	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Both
Ticket ID	Company Ticket ID	Emergency / Informational / Cut-in / Potentially Incomplete
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Emergency Only <input type="checkbox"/> Info Only <input type="checkbox"/> Cut-in Only <input checked="" type="checkbox"/> Potentially Incomplete
Outage Type	Availability	Cause
	<input type="text" value="Immediate"/>	<input type="text" value="AUG 20 10:00 AM"/>

QUESTIONS

