



# Transmission Facilities Outage List



- **Transmission Facilities Outage List (TFOL):**
  - Allows user to view current, future and historical eDART transmission outages.
    - Excluding Market Sensitive outages.
  - Allows user to filter outage information, based on Start Date, End Date, Company & Zone, Ticket ID, Ticket Status, and Transmission Facility
  - XML Download Capability
    - Browser and Browserless interfaces available.
    - Same filtering criteria available as in forms and more.

- Users that can see this information:
  - eDART Generic
  - Generation Read Only
  - Generation Read Write
  - Transmission Read Only (under Facility Outages)
  - Transmission Read Write (under Facility Outages)



# Facility Outage Reports

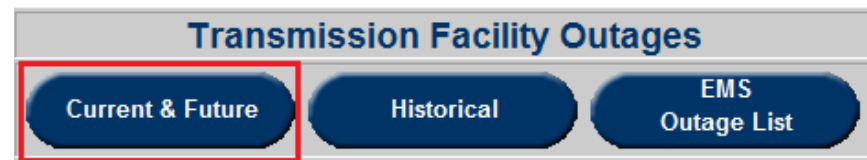
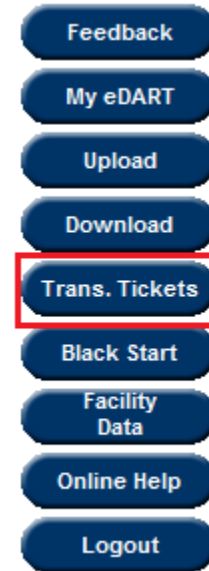
- TFOL information is available on OASIS
  - <http://www.pjm.com/markets-and-operations/etools/oasis/system-information/outage-info.aspx>
- Available to Load Serving Entities (LSE)
- Available to Marketers
- Can be downloaded/exported filtered on user's end
- eDART account not needed to access

CURRENT FACILITY OUTAGES									
ITEM	TICKET	FACILITY	NAME						
1	654312	BRKR	112 WILT	765 KV	112 WILTO	65TR93	M		
2	0	XFMR	112 WILT	765 KV	112 WILTON	65TR93	CT		
3	586840	CAP	AMOS	765 KV	AMOS	RXFA	REACTOR		
4	586840	CAP	AMOS	765 KV	AMOS	RXFB	REACTOR		
5	586840	CAP	AMOS	765 KV	AMOS	RXFC	REACTOR		
6	630558	BRKR	AMOS	765 KV	AMOS	S	CB		
7	630558	BRKR	AMOS	765 KV	AMOS	S2	CB		
8	586840	BRKR	AMOS	765 KV	AMOS	RB1	CB		
9	630558	LINE	AMOS	765 KV	AMOS-CULLODE2				
10	0	BRKR	BROADFO2	765 KV	BROADFO2	RSMD	DIS		
11	0	BRKR	BROADFO2	765 KV	BROADFO2	RSME	DIS		
12	0	BRKR	BROADFO2	765 KV	BROADFO2	RSMF	DIS		
13	0	CAP	BROADFO2	765 KV	BROADFO2	RXMD	REACTOR		
14	0	CAP	BROADFO2	765 KV	BROADFO2	RXME	REACTOR		
15	0	CAP	BROADFO2	765 KV	BROADFO2	RXMF	REACTOR		
16	578688	BRKR	CLOVERD2	765 KV	CLOVERD2	AA2	CB		
17	654149	XFMR	DUMONT2	765 KV	DUMONT2	2-P	XFMR		
18	625937	BRKR	DUMONT2	765 KV	DUMONT2	RA2	CB		
19	631623	BRKR	DUMONT2	765 KV	DUMONT2	RB2	CB		



# Current and Future Facility Outage Report

- This displays a report of current and future transmission outages scheduled in eDART which are not
- Market Sensitive.





# Current and Future Outage Report Filtering

- Select a Company and Zone or enter a Ticket ID to retrieve current and future outage information.
- When Start Date and End Date are entered, tickets which start and end **within** that date range will be retrieved.

Current & Future Outages Filter			
Company:		User Name:	
Start Date	End Date	Effective During	Cause
09/01/2016	09/20/2016	<input type="checkbox"/>	<ul style="list-style-type: none"><li>Add SF-6 Gas</li><li>C.B. Overhaul</li><li>C.B. Replacement</li><li>CB Maintenance</li><li>Cable Repair</li></ul>
Ticket ID	Ticket Status	Company	Zone
Type	Station	Voltage	Equipment
<input type="checkbox"/> Include Date and History Log (UI only)			
<a href="#">Submit Form</a> <a href="#">Download</a> <a href="#">Main Menu</a>			

- When Effective During option is checked, tickets overlapping the Start Date and End Date will be displayed. In this example the tickets which will be displayed are tickets:
  - Starting and ending between 09/28/16 and 12/31/16.
  - Starting between 09/28/16 and 12/31/16, ending after 12/31/16.
  - Starting before 09/28/16, ending between 09/28/16 and 12/31/16.
  - Starting before 09/28/16, ending after 12/31/16.

**Current & Future Outages Filter**

Company:		User Name:	
Start Date	End Date	Effective During	Cause
09/28/2016	12/31/2016	<input checked="" type="checkbox"/>	Add SF-6 Gas C.B. Overhaul C.B. Replacement CB Maintenance Cable Repair
Ticket ID	Ticket Status	Company	Zone
Type	Station	Voltage	Equipment
<input type="checkbox"/> Include Date and History Log (UI only)			
<a href="#">Submit Form</a>		<a href="#">Download</a> <a href="#">Main Menu</a>	



# Current and Future Outage Report Filtering

- Retrieve tickets for a particular status from a particular company by selecting from the drop down menu.

Current & Future Outages Filter			
Company:		User Name:	
Start Date	End Date	Effective During	Cause
09/01/2016	09/20/2016	<input type="checkbox"/>	<ul style="list-style-type: none"><li>Add SF-6 Gas</li><li>C.B. Overhaul</li><li>C.B. Replacement</li><li>CB Maintenance</li><li>Cable Repair</li></ul>
Ticket ID	Ticket Status	Company	Zone
	Approved		
Type	Station	Voltage	Equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Include Date and History Log (UI only)			
Submit Form		Download	Main Menu





# Current and Future Outage Report Filtering

- Submit Form: View report based on selected criteria.
- Download: Download the report in XML.
- Note: if no filters are used then no data will be displayed.

Current & Future Outages Filter			
Company:		User Name:	
Start Date	End Date	Effective During	Cause
<input type="text" value="09/01/2016"/>	<input type="text" value="09/20/2016"/>	<input type="checkbox"/>	<div style="background-color: #0070C0; color: white; padding: 5px;">Add SF-6 Gas C.B. Overhaul C.B. Replacement CB Maintenance Cable Repair</div>
Ticket ID	Ticket Status	Company	Zone
<input type="text"/>	<input type="text" value="v"/>	<input type="text" value="v"/>	
Type	Station	Voltage	Equipment
<input type="text" value="v"/>	<input type="text" value="v"/>	<input type="text" value="v"/>	<input type="text" value="v"/>
<input type="checkbox"/> Include Date and History Log (UI only)			
<a href="#">Submit Form</a>		<a href="#">Download</a> <a href="#">Main Menu</a>	



# Current and Future Outage Report Filtering

- The tickets are sorted by Start Date.

Current & Future Outages Filter																																																															
Company:		User Name:		Last Sync: 09/21/2016 10:13																																																											
<b>Ticket Info</b>				<b>Equipment</b>																																																											
Company: Ticket ID: 495746 Status: Active Out. Type: Continuous Availability: Duration Approval Risk: Cause: Other				<table border="1"> <thead> <tr> <th>Status</th> <th>Type</th> <th>Station</th> <th>Voltage</th> <th>Equip. Name</th> <th>Zone</th> <th>Start Time</th> <th>End Time</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>BRKR</td> <td>EVERGFE</td> <td>138 KV</td> <td>EVERGFE WCI_B20 CB</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> <tr> <td>O</td> <td>BRKR</td> <td>EVERGFE</td> <td>138 KV</td> <td>EVERGFE WCI_B21 CB</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> <tr> <td>O</td> <td>LINE</td> <td>EVERGFE</td> <td>138 KV</td> <td>EVERGFE -WCIFINIS WCI-EVE1</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> <tr> <td>O</td> <td>LINE</td> <td>EVERGFE</td> <td>138 KV</td> <td>EVERGFE -WCIHOTST WCI-EVE2</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> <tr> <td>O</td> <td>LINE</td> <td>WCIHOTST</td> <td>138 KV</td> <td>WCIHOTST-WCIFINIS WCI-WCI1</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> <tr> <td>C</td> <td>BRKR</td> <td>WCIHOTST</td> <td>138 KV</td> <td>WCIHOTST A12 DIS</td> <td>FE</td> <td>10/24/2012 08:00</td> <td>12/31/2020 16:00</td> </tr> </tbody> </table>				Status	Type	Station	Voltage	Equip. Name	Zone	Start Time	End Time	O	BRKR	EVERGFE	138 KV	EVERGFE WCI_B20 CB	FE	10/24/2012 08:00	12/31/2020 16:00	O	BRKR	EVERGFE	138 KV	EVERGFE WCI_B21 CB	FE	10/24/2012 08:00	12/31/2020 16:00	O	LINE	EVERGFE	138 KV	EVERGFE -WCIFINIS WCI-EVE1	FE	10/24/2012 08:00	12/31/2020 16:00	O	LINE	EVERGFE	138 KV	EVERGFE -WCIHOTST WCI-EVE2	FE	10/24/2012 08:00	12/31/2020 16:00	O	LINE	WCIHOTST	138 KV	WCIHOTST-WCIFINIS WCI-WCI1	FE	10/24/2012 08:00	12/31/2020 16:00	C	BRKR	WCIHOTST	138 KV	WCIHOTST A12 DIS	FE	10/24/2012 08:00	12/31/2020 16:00
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Company: Ticket ID: 549739 Status: Active Out. Type: Continuous Availability: Duration Approval Risk: Cause: Other				<table border="1"> <thead> <tr> <th>Status</th> <th>Type</th> <th>Station</th> <th>Voltage</th> <th>Equip. Name</th> <th>Zone</th> <th>Start Time</th> <th>End Time</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>BRKR</td> <td>EVERGFE</td> <td>138 KV</td> <td>EVERGFE WCI_B65 CB</td> <td>FE</td> <td>02/05/2014 09:00</td> <td>02/05/2017 16:00</td> </tr> </tbody> </table>				Status	Type	Station	Voltage	Equip. Name	Zone	Start Time	End Time	O	BRKR	EVERGFE	138 KV	EVERGFE WCI_B65 CB	FE	02/05/2014 09:00	02/05/2017 16:00																																								
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# Historical Facility Outage Report

- Only tickets with status of **Completed** will be shown for Historical Outage Report.
- Completed and Cancelled tickets are removed from OASIS TFOL report after 6 hours.





# Historical Facility Outage Report

- Submit Form: View report based on selected criteria.
- Download: Download the report in XML.

Historical Outages Filter			
Company:		User Name:	
Start Date	End Date	Effective During	Cause
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<div style="background-color: #0070C0; color: white; padding: 5px;">Add SF-6 Gas C.B. Overhaul C.B. Replacement CB Maintenance Cable Repair</div>
Ticket ID	Ticket Status	Company	Zone
<input type="text"/>	Completed	<input type="text"/>	
Type	Station	Voltage	Equipment
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Include Date and History Log (UI only)			
<div style="display: flex; justify-content: space-around;"><span>Submit Form</span><span>Download</span><span>Main Menu</span></div>			

- Apply Filter: View report based on selected criteria.
- This will display a list of equipment currently reported as out in PJM EMS.
- If Ticket ID # = 0, there is no corresponding ticket in eDART for that equipment.

**EMS Outage List as of: 11/15/2016 09:18**

Voltage: 69 KV:  115 KV:  138 KV:  161 KV:  230 KV:  345 KV:  500 KV:  765 KV:

Type: BRKR:  CAP:  LINE:  PS:  SD:  XFMR:

[Apply Filter](#) [Main Menu](#)

Row #	Ticket ID #	Type	Station	Voltage	Equip. Name
1	0	BRKR	112 WILT	765 KV	112 WILTO 65BT3-4 CB
2	0	BRKR	112 WILT	765 KV	112 WILTO 65BT4-5 CB
3	661294	BRKR	112 WILT	765 KV	112 WILTO 65L11215 M
4	0	CAP	112 WILT	765 KV	112 WILTON 65H11215
5	661294	SD	112 WILT	765 KV	112 WILTON 65L11215 Z1
6	0	BRKR	BROADFO2	765 KV	BROADFO2 RSM DIS
7	0	BRKR	BROADFO2	765 KV	BROADFO2 RSM DIS
8	0	BRKR	BROADFO2	765 KV	BROADFO2 RSMF DIS
9	0	CAP	BROADFO2	765 KV	BROADFO2 RXMD REACTOR
10	0	CAP	BROADFO2	765 KV	BROADFO2 RXME REACTOR
11	0	CAP	BROADFO2	765 KV	BROADFO2 RXMF REACTOR
12	646103	LINE	CLOVERD2	765 KV	CLOVERD2-JOSHUA F2
13	654149	XFMR	DUMONT2	765 KV	DUMONT2 2-P XFMR
14	0	BRKR	DUMONT2	765 KV	DUMONT2 B CB
15	0	BRKR	DUMONT2	765 KV	DUMONT2 B1 CB
16	0	BRKR	DUMONT2	765 KV	DUMONT2 DUM19118

**EMS Outage List as of: 11/15/2016 09:13**

Voltage: 69 KV:  115 KV:  138 KV:  161 KV:  230 KV:  345 KV:  500 KV:  765 KV:

Type: BRKR:  CAP:  LINE:  PS:  SD:  XFMR:

[Apply Filter](#) [Main Menu](#)

- Filter for desired outages and click download to retrieve the report in XML. The download type = TOIMWG

Current & Future Outages Filter			
Company:		User Name:	
Start Date	End Date	Effective During	Cause
<input type="text" value="08/09/2016"/>	<input type="text" value="09/30/2016"/>	<input type="checkbox"/>	<div style="background-color: #0070C0; color: white; padding: 5px;">           Add SF-6 Gas            C.B. Overhaul            C.B. Replacement            CB Maintenance            Cable Repair         </div>
Ticket ID	Ticket Status	Company	Zone
<input type="text"/>	<input type="text" value="v"/>	<input type="text" value="v"/>	
Type	Station	Voltage	Equipment
<input type="text" value="v"/>	<input type="text" value="v"/>	<input type="text" value="v"/>	<input type="text" value="v"/>
		<input type="checkbox"/> Include Date and History Log (UI only)	
<input type="button" value="Submit Form"/> <input style="border: 2px solid red;" type="button" value="Download"/> <input type="button" value="Main Menu"/>			

- For Current/Future and Historical outages download:

- type = toimwg
- transtype = current (for Current/Future outages); transtype = historical (for Historical outages)

```
SET JAVA_HOME=C:\Program Files (x86)\Java\jre7
SET PATH=%JAVA_HOME%\bin;%PATH%
echo
java -jar filetransfer-15.3.0.jar username= password= type=toimwg transtype=current
start=03/01/2014 stop=03/01/2016 id=all app=edart action=download debug=true
pause
```

- id: zone of interest
  - to download outages for all zones, use id=all
  - download list of zones with type = zone
- start/stop: outage start and end date filters (optional)
- recent: number of days from the present day to check if tickets were completed for TOIMWG historical report. (optional)

- For EMS Outage List download:

- type = emsoutage

```
SET JAVA_HOME=C:\Program Files (x86)\Java\jre7
SET PATH=%JAVA_HOME%\bin;%PATH%
echo
java -jar filetransfer-15.3.0.jar username= password= type=ems_outage app=edart
action=download debug=true
pause
```

- ems\_outage download example

- TOIMWG download example

```
<?xml version="1.0" encoding="UTF-8"?>
-edart
- <ticket>
  <pjmTicketId>0</pjmTicketId>
  <type>BRKR</type>
  <b1Name>W_NICHS2</b1Name>
  <b2Name>69 KV</b2Name>
  <b3Text>W_NICHS2 DUM5942 DIS</b3Text>
</ticket>
- <ticket>
  <pjmTicketId>0</pjmTicketId>
  <type>BRKR</type>
  <b1Name>W_SOMERS</b1Name>
  <b2Name>69 KV</b2Name>
  <b3Text>W_SOMERS DUM6046 DIS</b3Text>
</ticket>
- <ticket>
  <pjmTicketId>0</pjmTicketId>
  <type>CAP</type>
  <b1Name>W_SOMERS</b1Name>
  <b2Name>69 KV</b2Name>
  <b3Text>W_SOMERS SH_186 CAP</b3Text>
</ticket>
- <ticket>
  <pjmTicketId>0</pjmTicketId>
  <type>LINE</type>
  <b1Name>W_UNITY</b1Name>
  <b2Name>69 KV</b2Name>
  <b3Text>W_UNITY -BRYAN_TP WUNT-BRY</b3Text>
</ticket>
```

```
<?xml version="1.0" encoding="UTF-8"?>
- <toimwg xsi:noNamespaceSchemaLocation="toimwg.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  - <ticket_info>
    - <ticket>
      <pjmTicketId>51656</pjmTicketId>
      - <intervalDefinition>
        - <intervalStart>
          <date>2018-07-03</date>
          <time>22:00:00</time>
        </intervalStart>
        - <intervalEnd>
          <date>2018-07-04</date>
          <time>22:00:00</time>
        </intervalEnd>
      </intervalDefinition>
      <status>Received</status>
      <lastRevisedDate>04/23/2015 16:12</lastRevisedDate>
      <outageType>DailyNoWeekends</outageType>
      <companyName>Baltimore Gas and Electric Company</companyName>
      <availability>Immediate</availability>
      <approval_risk/>
      <rtepQueueNumber>ok dokie now</rtepQueueNumber>
      <previous_status>Submitted</previous_status>
    - <equipment status="Open">
      <type>XFMR</type>
      <b1Name>CONASTON</b1Name>
      <b2Name>500 KV</b2Name>
      <b3Text>CONASTON 500-3 XFORMER</b3Text>
      <zone>BC</zone>
    - <intervalDefinition>
      - <intervalStart>
        <date>2018-07-03</date>
        <time>22:00:00</time>
      </intervalStart>
      - <intervalEnd>
        <date>2018-07-04</date>
        <time>22:00:00</time>
      </intervalEnd>
    </intervalDefinition>
  </equipment>
  <cause description="Other">-1</cause>
```