



eDART Power System Stabilizer (PSS) Enhancements

Ron DeLoach
EDUG Meeting
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- Capture of PSS Outages NERC Requirement
- Currently in certain cases PJM notified over the phone
 - More audit ability necessary

Generator Tickets Main Menu						
Summer Peak Period Maintenance Margin Season						
Start: 06/15/2009 End: 09/11/2009						
Current Maintenance Margin						
Mid-Atlantic					N/A	
Western-Southern					N/A	
Create New Ticket			View/Revise Ticket			
	MW	Volt. Reg.	MVAR	Governor	MVAR Test	PSS
Submitted Tickets	1	0	0	1	0	1
Revised Tickets	0	0	0	0	0	0
Current Tickets	0	1	2	0	0	0
Approved Tickets	5	0	1	0	0	0
Future Tickets	0	0	0	0	0	0
Tickets History						
Owners Report	Maint. Margin Log	D-Curve Report	Blackstart XLS Upload			

- New generator ticket type to be added called PSS
 - *Note: Only units with PSS will have ability to enter tickets of this type.*
- A new column will be added to the ticket counts in the Generation Menu for PSS tickets.

New Generator Ticket

User ID: **id** Company: **PJM TEST**

Generation Type: Unit Name:

Company Ticket ID: Date: Hour:
(MM/DD/YY) (HH24:MI)

Description:

Est./Ramp Start:

Est. End:

End Date Unknown

Power System Stabilizer Ticket Info

Power System Stabilizer Out of Service:
 Emergency:

- New PSS Outage ticket type similar to Governor Outage ticket type.
- Checkboxes available for Out of Service and Emergency.
- *Note: PSS button only available for units with PSS.*

Generator Ticket Selection Form

Company: **Baltimore Gas Electric Company**

Ticket Type: **PSS** (highlighted with a red box)

Ticket ID:

Comp. Ticket ID:

Outage Type: **N/A (Reactive Tickets)**, Planned, Unplanned, Maintenance, Forecasted Planned

Unit Type:

Unit Name:

Reduction: Equal to

Installed Capacity: Equal to

Cause:

Ticket Status:

Revision Status:

Submission Date (MM/DD/YY): From: To:

Est. Start Date (MM/DD/YY): From: To:

Est. End Date (MM/DD/YY): From: To:

Actual Start Date (MM/DD/YY): From: To:

Actual End Date (MM/DD/YY): From: To:

Occuring During (MM/DD/YY): From: To:

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

Generator Ticket (Review/Revise)

User ID: **id** Ticket Number: **0** Company: **PJM TEST**

Generation Type: **Diesel/CT** Unit Name: **Unit name 1** Est./Ramp Start: **04/02/2009 00:00**

Ticket Status: **Active** Timestamp: **04/16/2009 08:56** Est. End: **04/25/2009 11:11**

Company Ticket ID : **Actual Start: 04/07/2009 00:00**
Actual End:

Description: **This is a test**

PJM Comments:

Power System Stabilizer Ticket Info
Power System Stabilizer Out of Service: Emergency:

[Add New Revision](#) [Submit](#) [Refresh](#) [History Log](#) [Main Menu](#)

Revisions

Rev. ID	User ID	Rev. Start Date Time	Rev. End Date Time	Rev. Status	Timestamp
435632	id	04/02/2009 00:00		Received	04/16/2009 09:02
435631	ID	04/20/2009 00:00		Canceled by Company	04/16/2009 08:30
435630	id	04/13/2009 00:00		Submitted	04/16/2009 09:02

- PSS Outage revision ticket similar to Governor Outage revision ticket.
- Same date revision and log availability as Governor Outage revision ticket.

Ticket History

Company: **PJM TEST**

Ticket ID	Unit Type	Unit Name
Company Ticket ID	Reduction	Installed Capacity
Outage Type	Ticket Type	Cause
<ul style="list-style-type: none"> Planned Unplanned Maintenance Forecasted Planned 	PSS	
Est. Start Date (MM/DD/YY)	Est. End Date (MM/DD/YY)	
From: To:	From: To:	
Actual Start Date (MM/DD/YY)	Actual End Date (MM/DD/YY)	
From: To:	From: To:	<input type="button" value="Apply Filter"/> <input type="button" value="Main Menu"/>

- PSS ticket type to be added to all ticket type report filters.
- Report data display to be similar to Governor Outage ticket type.

Ticket History

Ticket ID	Comp. Ticket ID	Unit Name	Emergency	PSS Out of Service	Est. Start Date/Time	Est. End Date/Time	Actual Start Date/Time	Actual End Date/Time	Status
294258	mw volt. test1	Unit XXXXXX	No	No	01/05/2009 12:00	02/05/2009 12:00	11/02/2008 00:00		Active
294259	mw volt test2	Unit YYYYYY	No	Yes	01/05/2009 12:00	02/05/2009 12:00			Canceled by PJM
294290		Unit ZZZZZZ	No	No	04/02/2009 00:00	04/25/2009 11:11	04/07/2009 00:00		Active
294291	VoltReg Test	Unit 111111	No	Yes	04/20/2009 00:00	04/25/2009 11:11	04/14/2009 00:00		Active
294292	VoltReg Test2	Unit 222222	No	No	04/20/2009 01:23	05/20/2009 01:23			Canceled by PJM



Generation/Transmission Owners Report Filter

Generation Owners Report

Company: PJM TEST

Ticket ID:

Ticket Type: **PSS** (dropdown menu with options: Planned, Unplanned, Maintenance, Forecasted Planned)

Unit Name:

Outage Type:

New Default Filter:

Capacity: Reduction:

Estimated Start Date (MM/DD/YYYY): From: To:

Estimated End Date (MM/DD/YYYY): From: To:

Actual Start Date (MM/DD/YYYY): From: To:

Actual End Date (MM/DD/YYYY): From: To:

Tickets Occurred During (MM/DD/YYYY): From: To:

Active Tickets:

Buttons: Apply Filter, Refresh, Main Menu

- This includes the Generator and Transmission Owners Reports.

Generation Owners Report

This report does not automatically contain Forecast Planning Tickets. If you want to include them, please change your selection by clicking Go to Filter.

Buttons: Apply Filter, Go to Filter

Ticket ID	Comp. Ticket ID	Unit Name	Emergency	PSS Out of Service	Est. Start Date/Time	Est. End Date/Time	Actual Start Date/Time	Actual End Date/Time	Status
32981		Unit 1	No	No	12/12/2005 12:00	12/12/2007 12:00			Canceled by Company

Buttons: Back

D-Curve Report									
Unit Name	Unit Type	Installed Capacity	Voltage Control Philosophy	Metered MVAR Value	Power System Stabilizer	EMS Equipment Name	MW Point	MVAR Min	MVAR Max
Unit 1	Diesel/CT	34	TBD	TBD	No	OYSTERCR FR 1 GEN UNIT	10	↕	↕
						OYSTERCR FR 1 GEN UNIT	35	↕	↕
						OYSTERCR FR 1 GEN UNIT	36	↕	↕
						OYSTERCR FR 1 GEN UNIT	37	↕	↕
						OYSTERCR FR 1 GEN UNIT	38	↕	↕
						OYSTERCR FR 1 GEN UNIT	39	↕	↕
						OYSTERCR FR 1 GEN UNIT	40	↕	↕
Unit 1	Diesel/CT	32	TBD	TBD	Yes	OYSTERCR FR 2 GEN UNIT	10	↕	↕
						OYSTERCR FR 2 GEN UNIT	35	↕	↕
						OYSTERCR FR 2 GEN UNIT	36	↕	↕
						OYSTERCR FR 2 GEN UNIT	37	↕	↕
						OYSTERCR FR 2 GEN UNIT	38	↕	↕
						OYSTERCR FR 2 GEN UNIT	39	↕	↕
						OYSTERCR FR 2 GEN UNIT	40	↕	↕
						OYSTERCR FR 2 GEN UNIT	41	↕	↕

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- Identification of units having Power System Stabilizer will be added to both the generator and transmission versions of the D-Curve Report.



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