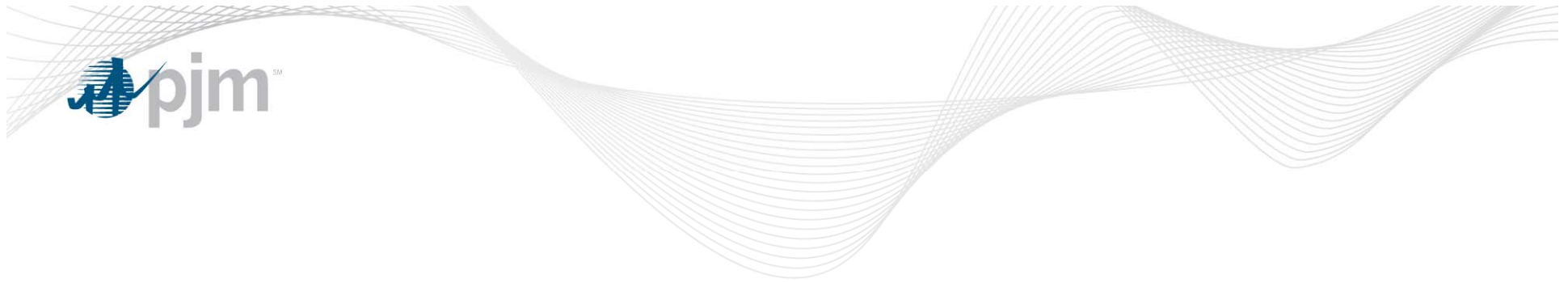




eDART Users Group (EDUG) – Generation

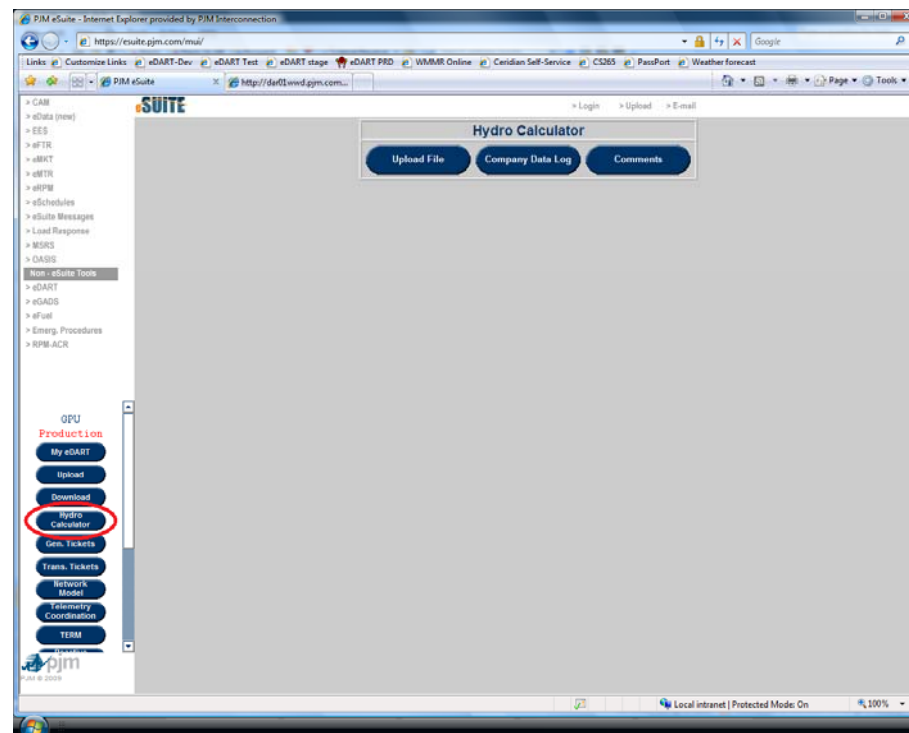
Ron DeLoach
June 4, 2009



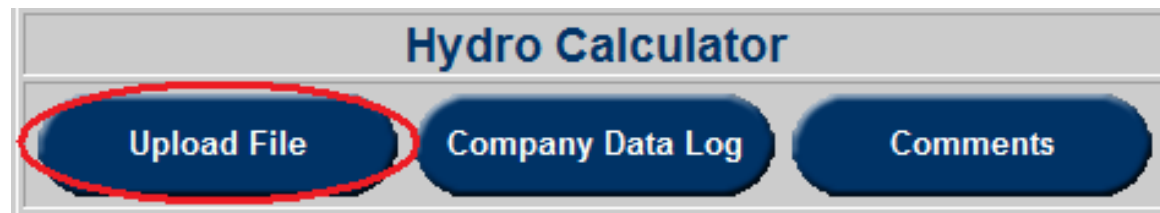
eDART – Member Hydro Calculator Manual Interface Training

- New Hydro Calculator needed as function of scheduling to be migrated to MC.
- New more automated version of Hydro Calculator to encompass more flexibility and ease of data submission, retrieval, and calculation.

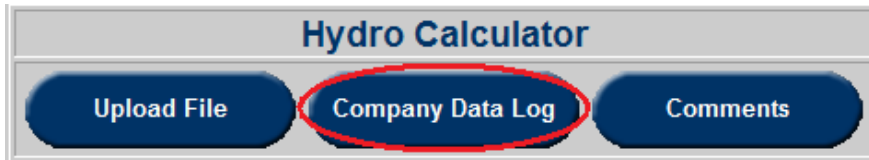
- Company interface only for members submitting data used in Conowingo scheduling calculator.
- Once you log into eDART, click on the “Hydro Calculator” button to access the main menu. You should see three buttons:
 - Upload File – lets you upload a hydro file from your computer into the eDART system.
 - Company Data Log – lists the files that your company has uploaded and lets you view them.
 - Comments – lets you add comments to be seen by PJM.



- To manually upload a hydro file, first save the file from your application to your hard drive.
- Then click “Upload File” to browse for file and submit it to PJM.



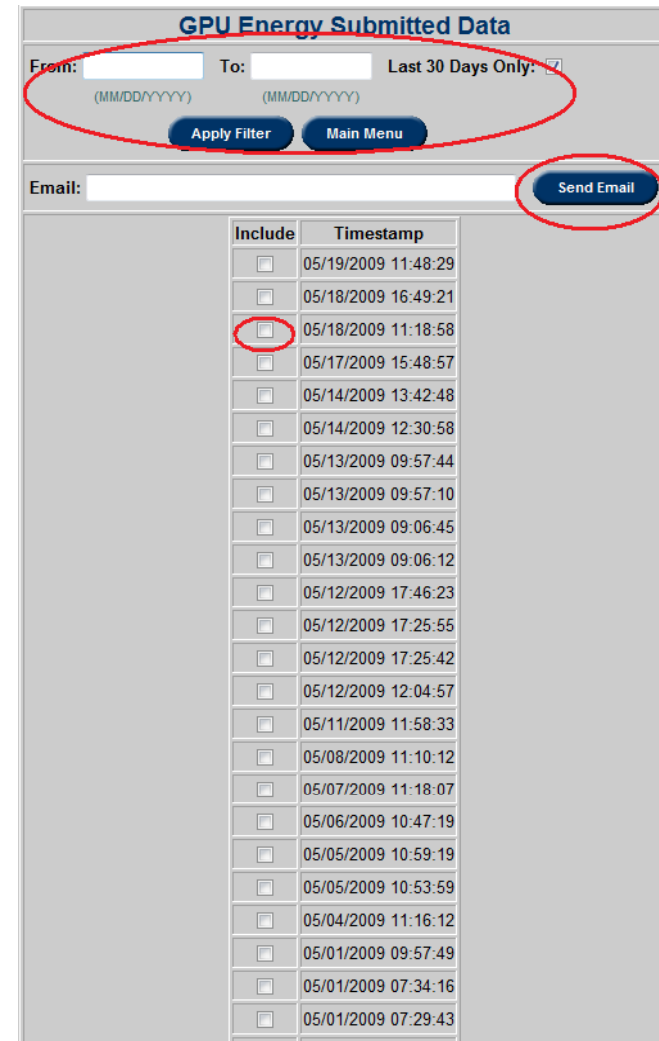
- To retrieve previously submitted files click “Company Data Log”



Hydro Calculator

Upload File **Company Data Log** Comments

- Selected files will be emailed to address the user provides.



GPU Energy Submitted Data

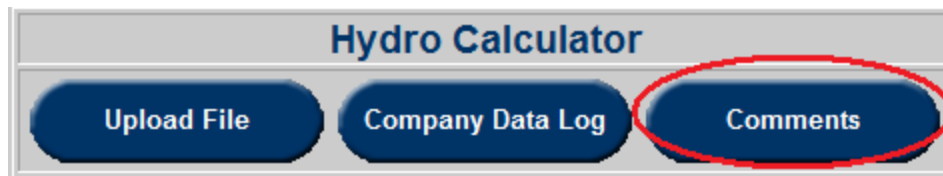
From: To: Last 30 Days Only:
(MM/DD/YYYY) (MM/DD/YYYY)

Apply Filter Main Menu

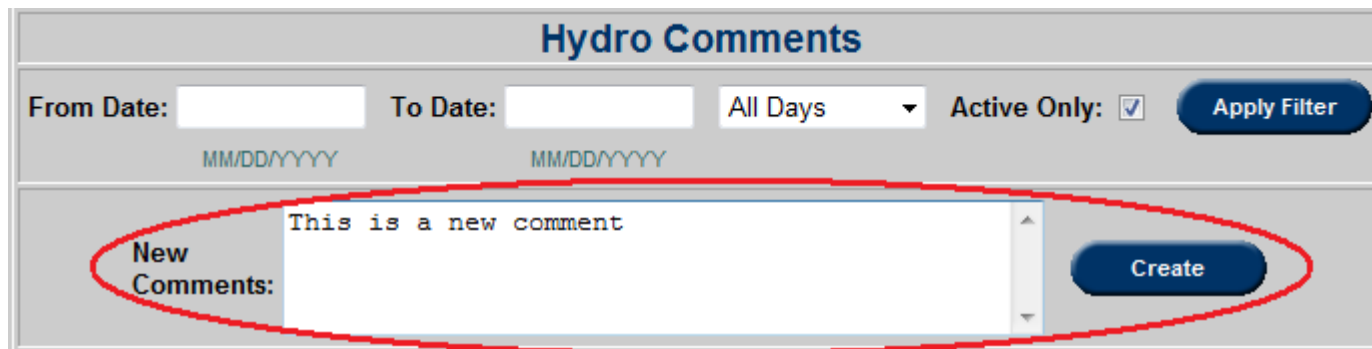
Email: Send Email

Include	Timestamp
<input type="checkbox"/>	05/19/2009 11:48:29
<input type="checkbox"/>	05/18/2009 16:49:21
<input checked="" type="checkbox"/>	05/18/2009 11:18:58
<input type="checkbox"/>	05/17/2009 15:48:57
<input type="checkbox"/>	05/14/2009 13:42:48
<input type="checkbox"/>	05/14/2009 12:30:58
<input type="checkbox"/>	05/13/2009 09:57:44
<input type="checkbox"/>	05/13/2009 09:57:10
<input type="checkbox"/>	05/13/2009 09:06:45
<input type="checkbox"/>	05/13/2009 09:06:12
<input type="checkbox"/>	05/12/2009 17:46:23
<input type="checkbox"/>	05/12/2009 17:25:55
<input type="checkbox"/>	05/12/2009 17:25:42
<input type="checkbox"/>	05/12/2009 12:04:57
<input type="checkbox"/>	05/11/2009 11:58:33
<input type="checkbox"/>	05/08/2009 11:10:12
<input type="checkbox"/>	05/07/2009 11:18:07
<input type="checkbox"/>	05/06/2009 10:47:19
<input type="checkbox"/>	05/05/2009 10:59:19
<input type="checkbox"/>	05/05/2009 10:53:59
<input type="checkbox"/>	05/04/2009 11:16:12
<input type="checkbox"/>	05/01/2009 09:57:49
<input type="checkbox"/>	05/01/2009 07:34:16
<input type="checkbox"/>	05/01/2009 07:29:43

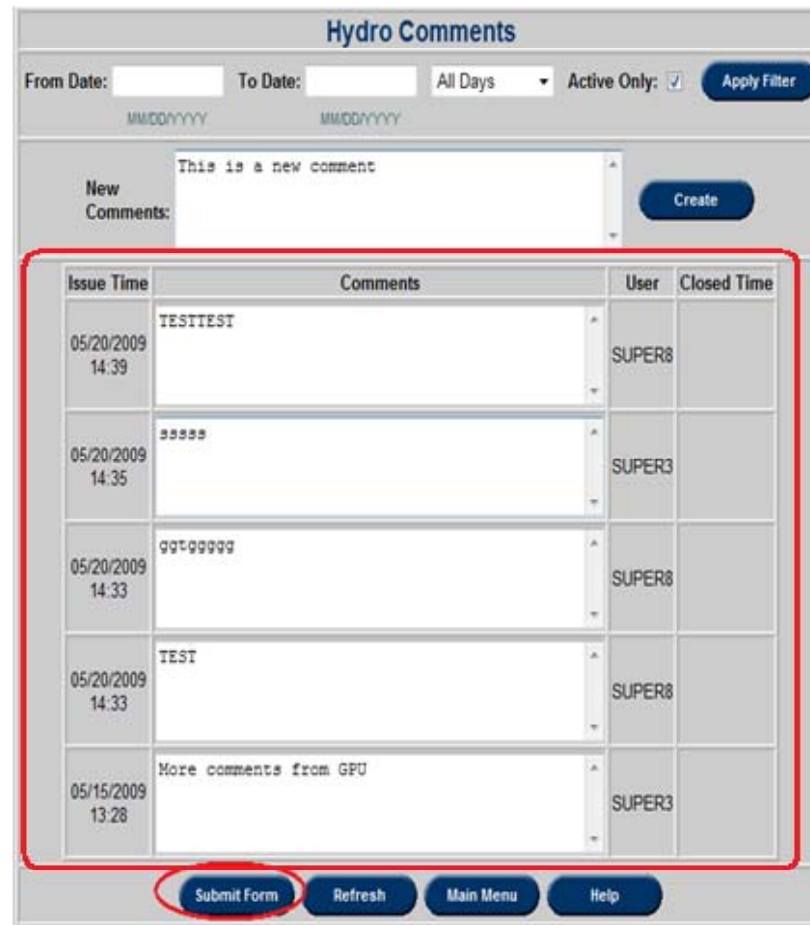
- To edit or add new comments, select the “Comments” button



- To submit comments to PJM, type your comment into the “New Comments” text box and when you’re finished, hit the “Create” button. Your comment will now be logged into the system and show up in the comments log.

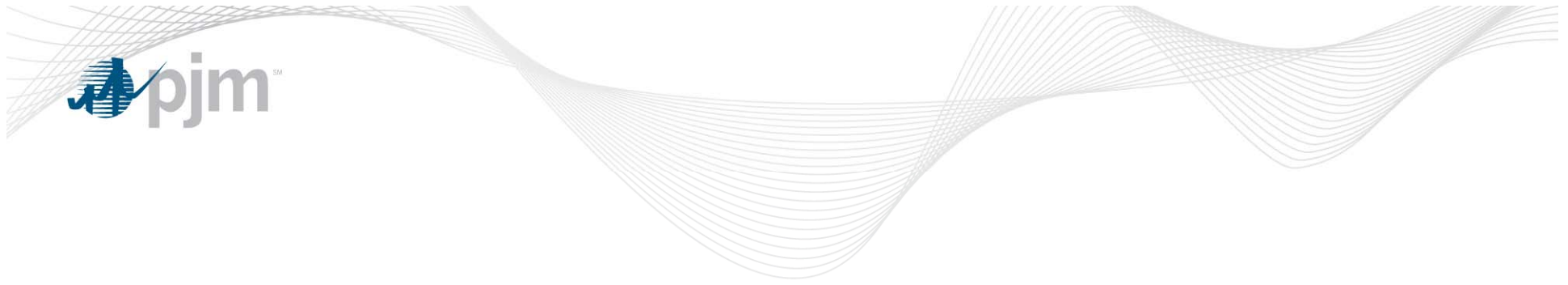


- Previously submitted comments can be edited from the log



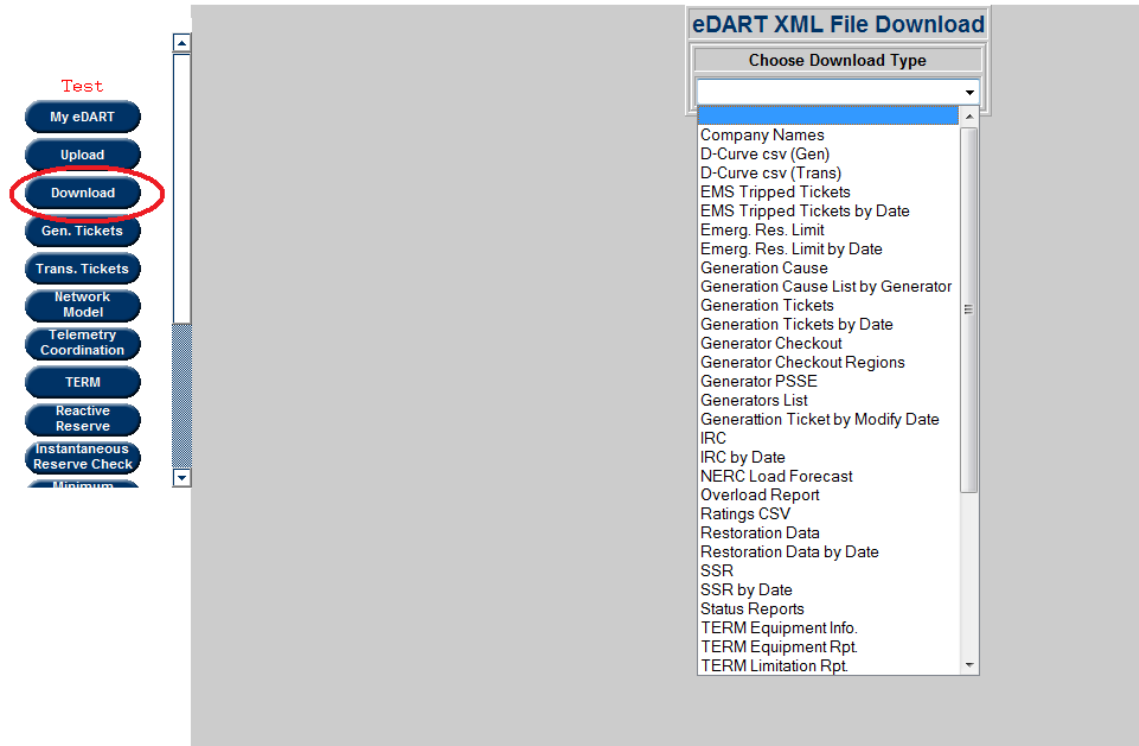
The screenshot shows the 'Hydro Comments' interface. At the top, there are filters for 'From Date', 'To Date', 'All Days', and 'Active Only' with an 'Apply Filter' button. Below this is a 'New Comments' section with a text input field containing 'This is a new comment' and a 'Create' button. The main part of the interface is a table of comments, which is highlighted with a red border. The table has columns for 'Issue Time', 'Comments', 'User', and 'Closed Time'. The 'Submit Form' button at the bottom is also highlighted with a red circle.

Issue Time	Comments	User	Closed Time
05/20/2009 14:39	TESTEST	SUPER8	
05/20/2009 14:35	sssss	SUPER3	
05/20/2009 14:33	ggggggg	SUPER8	
05/20/2009 14:33	TEST	SUPER8	
05/15/2009 13:28	More comments from GPU	SUPER3	



Additional Enhancements

- Companies will be able to download a CSV version of the D-Curve Report.





Sample CSV Version of D-Curve Report

dcurvegen.csv - Microsoft Excel

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Unit Name	Unit Type	Installed C	Voltage	Cc	Metered M	Blackstart	EMS Equip	TA ID	MW Point	MVAR Mir	MVAR Max							
1	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	0	-70	90							
2	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	130	-70	90							
3	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	131	-70	90							
4	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	132	-70	90							
5	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	133	-70	90							
6	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	134	-70	90							
7	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	135	-70	90							
8	CAMBRIA Nug	150	TBD	TBD			1	CAMBRIA 13137	136	-70	90							
9	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	10	-2	12							
10	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	20	0	10							
11	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	25	0	8							
12	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	26	0	8							
13	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	27	0	8							
14	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	28	0	8							
15	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	29	0	8							
16	CAMDEN Nug	23	TBD	TBD			0	GLOUCES 31987	30	0	8							
17	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	0	-44	52							
18	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	117	-44	52							
19	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	118	-44	52							
20	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	119	-44	52							
21	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	120	-44	52							
22	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	121	-44	52							
23	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	122	-44	52							
24	COLVER I Nug	110	TBD	TBD			1	COLVERP 13138	123	-44	52							
25	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	1	-4	5							
26	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	8	-4	5							
27	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	9	-4	5							
28	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	10	-4	5							
29	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	11	-4	5							
30	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	12	-4	5							
31	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	13	-4	5							
32	CONEMAI Nug	4	TBD	TBD			1	BLAIRSVE 13136	14	-4	5							
33	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	0	-40	50							
34	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	70	-40	50							
35	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	71	-40	50							
36	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	72	-40	50							
37	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	73	-40	50							
38	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	74	-40	50							
39	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	75	-40	50							
40	EBENSBU Nug	50	TBD	TBD			0	EBENSBU 13145	76	-40	50							
41	FORKED I Diesel/CT	32	TBD	TBD			1	OYSTERC 13093	10	-4	8							
42	FORKED I Diesel/CT	32	TBD	TBD			1	OYSTERC 13093	35	-4	8							
43	FORKED I Diesel/CT	32	TBD	TBD			1	OYSTERC 13093	36	-4	8							
44	FORKED I Diesel/CT	32	TBD	TBD			1	OYSTERC 13093	37	-4	8							
45	FORKED I Diesel/CT	32	TBD	TBD			1	OYSTERC 13093	38	-4	8							

- On the “IRC Company Data” form, “Spinning” was changed to “Synchronous” and “Secondary Reserve” was changed to “Supplemental Reserve”.
- Under “IRC Reports” in eDATA, “Adjusted Spinning” was changed to “Adjusted Synchronous”



IRC Label Changes – Company Data

Company: **Company**
 Request ID: 12100 Request Timestamp: 03/24/2009 09:36
 User Name: SUPER8 Posted Timestamp:

Company Data

	PJM CZ	Mid Atl	AP	AEP	DAY	DLCO	Western	DOM	Southern	CE	NI
Operating Reserve		0					0		0		0
Normal Regulating Reserve		0					0		0		0
East Normal Regulating Reserve		0					0		0		0
Synchronous Reserve Regulating		0					0		0		0
East Synchronous Reserve Regulating		0					0		0		0
Synchronous Reserve Non-Regulating		0					0		0		0
East Synchronous Reserve Non-Regulating		0					0		0		0
Quick Start											
Hydro		0					0		0		0
Other		0					0		0		0
Supplemental		0					0		0		0
Reserve > 30		0					0		0		0
Regulation		0					0		0		0

Submit Form Refresh Back

Company: **Company**
 Request ID: 12100 Request Timestamp: 03/24/2009 09:36
 User Name: SUPER8 Posted Timestamp:

Company Data

	PJM CZ	Mid Atl	AP	AEP	DAY	DLCO	Western	DOM	Southern	CE	NI
Operating Reserve		n/a					n/a		n/a		n/a
Normal Regulating Reserve		n/a					n/a		n/a		n/a
East Normal Regulating Reserve		n/a					n/a		n/a		n/a
Synchronous Reserve Regulating		n/a					n/a		n/a		n/a
East Synchronous Reserve Regulating		n/a					n/a		n/a		n/a
Synchronous Reserve Non-Regulating		n/a					n/a		n/a		n/a
East Synchronous Reserve Non-Regulating		n/a					n/a		n/a		n/a
Quick Start											
Hydro		n/a					n/a		n/a		n/a
Other		n/a					n/a		n/a		n/a
Supplemental		n/a					n/a		n/a		n/a
Reserve > 30		n/a					n/a		n/a		n/a
Regulation		n/a					n/a		n/a		n/a

Refresh Back

Welcome user, EDATA_GUEST
 Latest PJM RTO Load: 85,352 MW
 Tuesday March 24, 2009 - 10:25 EDT

DATA
 Provided by **pjm**

Elevated Significant Risk

GENSCOPE
 www.genscope.com

Emergencies Constraints

Ticker
LMP List
 MPs updated @ 10:28 03/24/09

AE	DA	\$53.25
-	RT	\$102.30
AEP	DA	\$40.88
-	RT	\$94.10
APS	DA	\$49.47
-	RT	\$98.39
BATH COUNTY	DA	\$56.84
-	RT	\$95.13
BC	DA	\$57.72
-	RT	\$101.96
COMED	DA	\$35.20

Tabs: View Other Tools Help

Tie Flows Weather LMP - Zones LMP Contour... LOAD DR Lambda ACE Guest RTis **Big Picture**

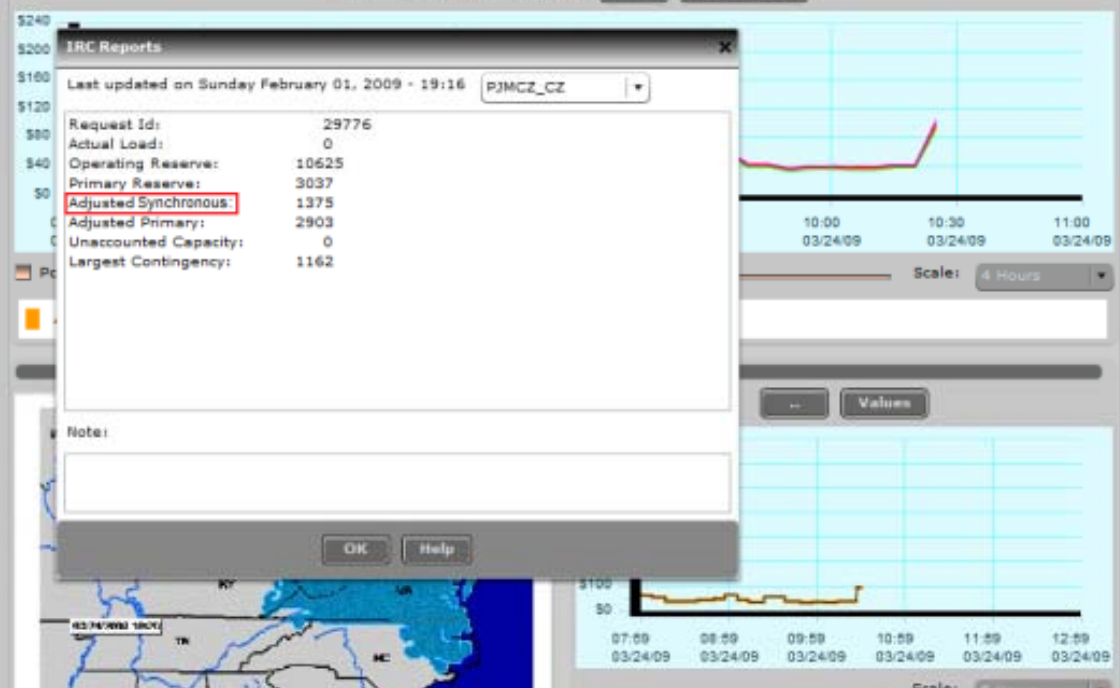
DA Real-Time Both Select LMPs

IRC Reports
 Last updated on Sunday February 01, 2009 - 19:16 PJMCZ_CZ

Request Id:	29776
Actual Load:	0
Operating Reserve:	10625
Primary Reserve:	3037
Adjusted Synchronous:	1375
Adjusted Primary:	2903
Unaccounted Capacity:	0
Largest Contingency:	1162

Note:

Dispatch Lambda Rates Average Rate





Emergency Procedures Enhancements

- Emergency Procedures Messages Report will automatically refresh every 10 minutes.
- Restoration Drill messages will be highlighted in purple in Emergency Messages Report.
- Added Restoration Drill filter to display only drill related postings, all postings(drills included), or non-drill related postings.



Emergency Procedures Enhancements



Emergency Messages (06/02/2009 09:34:33)

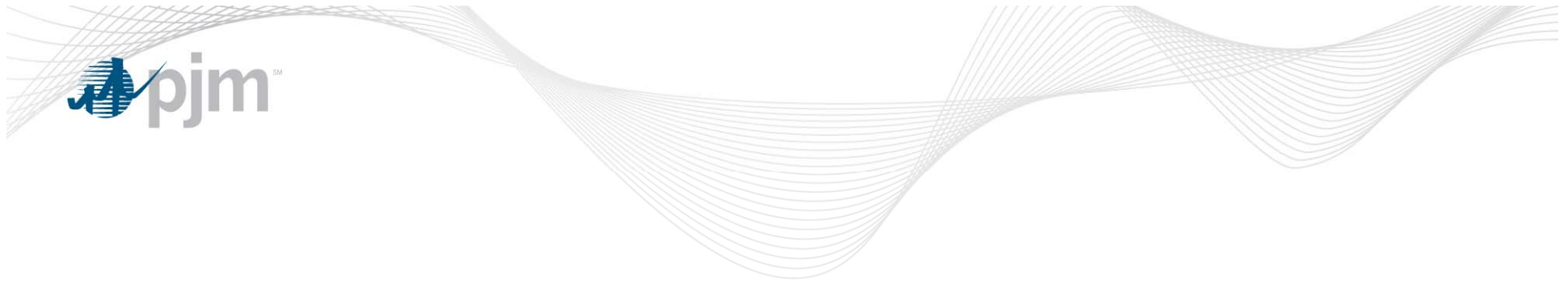
Region(s): PJM - RTO
NICA - Control Area
PJM1 - Control Area
Eastern - Control Zone

Message Type: Cold Weather Alert
Curt Bldg Load
DISREGARD - LOC_TEST1
DISREGARD -- TEST MESSAGE

From: 5/29/09 To: 5/29/09 Active Only: Last 2 Days: Flowgate Number: Restoration Drills: Include

1	Msg. ID	Msg. Type	Date/Time	Region/Area	Emergency Message	Cancel Date/Time
	2052	Cold Weather Alert	05/29/2009 13:59	PJM - RTO	As of hours, a Cold Weather Alert has been issued for na Day New New New New New New New New testing1 Additional Comments: test	
	2033	DISREGARD -- TEST MESSAGE (Restoration Drill)	05/29/2009 13:57	PJM1 - Control Area	Additional Comments: test	05/29/2009 13:58
	2032	Cold Weather Alert	05/29/2009 13:56	PJM - RTO	As of hours, a Cold Weather Alert has been issued for 05/31/09 na Day New New New New New New New testing1 Additional Comments: test	

-
-
-
-



Future Enhancements

- Allows generation companies a way of uploading their generation test files and store them in eDART.
- PJM will upload PJM response info and files and have them stored as with the company submission data.

Generator Data Submission

User ID: smithj	Company: PJM TEST	Data Type: MVAR
Unit Type: CT	Unit Name: XYZ Unit	Capacity: 150 Status: _____

Comments	PJM Comments
<div style="border: 1px solid gray; height: 40px;"></div>	<div style="border: 1px solid gray; height: 40px;"></div>

Submitted File

Test Type	Test Date	File Name	Timestamp	Status	History
Lag	11/7/2007	File ABC	11/30/2007	Submitted ▾	View
Lead	11/10/2007	File XYZ	11/30/2007	Submitted ▾	View

Append Files

Test Type	Test Date	File Name
<div style="border: 1px solid gray; width: 100%; height: 20px;"></div>	<div style="border: 1px solid gray; width: 100%; height: 20px;"></div>	<div style="border: 1px solid gray; width: 100%; height: 20px;"></div>

Browse
Submit
Supported File Types

Submit
Main Menu
History Log

- New version of IRC to pull unit reserves from EMS and then have the members review and or update values.

IRC Company Data

Company: [Company](#)
 Request ID: 12100 Request Timestamp: 8/24/2009 09:26
 User Name: SUPSR0 Posted Timestamp:

		Company Data										
		PJM CZ	Mid At	AP	AEP	SAY	DLCO	Western	DOM	Southern	CE	BI
Operating Reserve	Submitted EMS Delta		0					0		0		0
Normal Regulating Reserve	Submitted EMS Delta		0					0		0		0
East Normal Regulating Reserve	Submitted EMS Delta		0					0		0		0
Spinning Reserve Regulating	Submitted EMS Delta		0					0		0		0
East Spinning Reserve Regulating	Submitted EMS Delta		0					0		0		0
Spinning Reserve Non-Regulating	Submitted EMS Delta		0					0		0		0
East Spinning Reserve Non-Regulating	Submitted EMS Delta		0					0		0		0
Quick Start	Submitted EMS Delta											
Hydro	Submitted EMS Delta		0					0		0		0
Other	Submitted EMS Delta		0					0		0		0
Secondary	Submitted EMS Delta		0					0		0		0
Reserve + 30	Submitted EMS Delta		0					0		0		0
Regulation	Submitted EMS Delta		0					0		0		0

[Submit Form](#) [Refresh](#) [Back](#)

- Tracks environmental restrictions (run-hours) required by Clean Air Acts on units. It will also provide reports on when this info needs updating (periodic notification) and generate latency reporting.



