



# PJM eDART Black Start Calculator

eDART Transmission Companies

- Enhance visibility/awareness of current and future Black Start and Critical Loads
- Enhance tracking and completion of required items prior to new units coming in service or retiring or terminating Black Start service.
- Minimize rework by using the same baseline data across PJM/GO/TO.
- Reduce reliance on email as documentation between PJM/GO/TO.

## PJM initiates review

- Member Deadline Date is set.
- Black Start Calculator button turns red on TO interface.



## TO can indicate that an SOS exception will be requested

- TO can also remove previously indicated SOS exception requests.
- Check TO Update checkbox before submitting.



## TO communicates with PJM for SOS exception requests.

- PJM enters Official Ready Date.
- TO can view updated data in Official Report

PJM TEST  
Production

- Feedback
- My eDART
- Upload
- Download
- Trans. Tickets
- Network Model
- Black Start
- TERM
- Reactive Reserve
- New Reactive Reserve
- Instantaneous Reserve Check
- Minimum Gen. Report
- PJM Status Report
- NERC Data
- Restoration Data
- Facility Data
- Online Help
- Logout



**Black Start Main Menu**

**Restoration Plans**

- Approved Restoration Plans
- Restoration Plans Notif. Request
- Pending Restoration Plans
- Restoration Plans Report

**BlackStart Calculator**

- Blackstart Calculator



## No Action Required

BlackStart Calculator Main Menu						
<a href="#">Official Report</a>						
Critical Load vs. Blackstart Balance						
Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
Zone A	3	100	10	30	33	67
<b>Currently in Review</b>						
Nothing in review						

## Action Required

BlackStart Calculator Main Menu						
<a href="#">Official Report</a>						
Critical Load vs. Blackstart Balance						
Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
Zone A	3	100	10	30	33	67
<b>Currently in Review</b>						
		Member Deadline Date	Units/Loads	Not Answered TO		
		12/19/2017	1	1		
		01/18/2018	1	1		
		02/14/2018	1	1		

## Unit Warning

BlackStart Calculator Main Menu						
<a href="#">Official Report</a>						
Critical Load vs. Blackstart Balance						
Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
Zone A	1	100	10	30	33	67

**Currently in Review**

Nothing in review

## Balance Warning

BlackStart Calculator Main Menu						
<a href="#">Official Report</a>						
Critical Load vs. Blackstart Balance						
Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
Zone A	3	30	10	30	33	-3

**Currently in Review**

Nothing in review

**Black Start Main Menu**

Restoration Plans

- Approved Restoration Plans
- Restoration Plans Notif. Request
- Pending Restoration Plans
- Restoration Plans Report

**Black Start Calculator**

Blackstart Calculator

**BlackStart Calculator Main Menu**

Official Report

**Critical Load vs. Blackstart Balance**

Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
Zone A	3	100	10	30	33	67

**Currently in Review**

Member	Deadline Date	Units/Loads	Not Answered TO
	12/19/2017	1	1
	01/18/2018	1	1
	02/14/2018	1	1

**BlackStart Review**

Member Deadline: 12/19/2017, 01/18/2018, 02/14/2018  
 TO Zone: PJM  
 Restoration Zone: PJM  
 GO Company: Gen Company  
 TO Company: Trans Company  
 Restoration Type: Black Start, Critical Load (EGC), Critical Load (Nuclear)  
 Record Status: TO not Answered

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

Member Deadline	GO Company	Name	Unit Type	TO Zone	Record Type	Current / Future	Restoration Type	Restoration Zone	TO Company	Effective Date	Terminate Date	Record Status	SOS Exception	TO Update	PJM Approval
02/14/2018	Gen Company	UNIT 001	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	04/04/2007		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 002	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	04/04/2007		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 003	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	01/01/2000		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 004	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	01/01/2000		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 005	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	01/01/2000		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 006	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	01/01/2000		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	
02/14/2018	Gen Company	UNIT 007			Load	Current	Critical Load (EGC)	PJM	Trans Company	08/29/2017		TO not Answered	<input type="checkbox"/>	<input type="checkbox"/>	

[Submit Form](#) [Help](#) [CSV Export](#) [Main Menu](#)

Check SOS Exception checkbox to indicate an exception request will be made through the SOS-T

“TO Update” checkbox **MUST** be checked in order to submit data





# TO Black Start Calculator – Black Start Review

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Member Deadline	GO Company	Name	Unit Type	TO Zone	Record Ty	Restoratic	Restoration Type	Restoration Zone	TO Company	Restoration Effective Date	Restoration Terminate Date	Restoration SOS Exception		
2	2/14/2018	Gen Company	UNIT 001	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	4/4/2007		No		
3	2/14/2018	Gen Company	UNIT 002	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	4/4/2007		No		
4	2/14/2018	Gen Company	UNIT 003	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	1/1/2000		Yes		
5	2/14/2018	Gen Company	UNIT 004	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	1/1/2000		No		
6	2/14/2018	Gen Company	UNIT 005	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	1/1/2000		No		
7	2/14/2018	Gen Company	UNIT 006	Nuclear	PJM	Unit	Current	Critical Load (Nuclear)	PJM	Trans Company	1/1/2000		No		
8	2/14/2018	Gen Company	UNIT 007		PJM	Load	Current	Critical Load (EGC)	PJM	Trans Company	8/29/2017		No		



# TO Black Start Calculator – Official Report

### BlackStart Official Report

**TO Zone:** PJM1  
PJM2   
 **Restoration Zone:** PJM1  
PJM2  
PJM3   
 **GO Company:** Gen Company 1  
Gen Company 2  
Gen Company 3   
 **TO Company:** Trans Company A  
Trans Company B  
Trans Company C   
 **Restoration Type:** Black Start  
Critical Load (EGC)   
 **From Date:** 01/23/2018   
 **To Date:** 01/24/2018

Restoration Zone	BlackStart Unit Count	BlackStart MW	Critical Load Count	Critical Load Actual MW	Critical Load Req. MW	Balance MW
PJM2	2	300	1	10	11	289

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

GO Company	Name	Unit Type	TO Zone	Record Type	Total Start-Up (MWs)	Total Start-Up (MVAR)	Current / Future	Restoration Type	Restoration Zone	TO Company	Allocated Restoration MW	Effective Date	Terminate Date
Gen Company 1	UNIT ABC	Combustion Turbine	PJM1	Unit			Current	Black Start	PJM1	Trans Company A	200	11/01/2017	
							Current	Black Start	PJM2	Trans Company B	150	12/01/2017	
Gen Company 2	UNIT 123	Hydro	PJM2	Unit			Current	Black Start	PJM2	Trans Company B	150	12/12/2017	
Gen Company 3	UNIT 001			Load	10	5	Current	Critical Load (EGC)	PJM2	Trans Company B	10	08/29/2017	
							Future	Critical Load (EGC)	PJM3	Trans Company C	10	03/18/2018	

[Apply Filter](#)    [Help](#)    [CSV Export](#)    [Main Menu](#)



# TO Black Start Calculator – Official Report

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	GO Company	Name	Unit Type	TO Zone	Record Ty	Total Start	Total Star	Restoratic	Restoratic	Restoratic	TO Company	Allocated	Restoration Effective Date	Restoration Terminate Date		
2	Gen Company 1	UNIT ABC	Combusti	PJM1	Unit			Current	Black Star	PJM1	Trans Company A	200	11/1/2017			
3	Gen Company 1	UNIT ABC	Combusti	PJM1	Unit			Current	Black Star	PJM2	Trans Company B	150	12/1/2017			
4	Gen Company 2	UNIT 123	Hydro	PJM2	Unit			Current	Black Star	PJM2	Trans Company B	150	12/12/2017			
5	Gen Company 2	UNIT 001			Load	10	5	Current	Critical Lo	PJM2	Trans Company B	10	8/29/2017			
6	Gen Company 3	UNIT 001			Load	10	5	Future	Critical Lo	PJM3	Trans Company C	10	3/18/2018			

