

Supplementary Status Report (SSR)

PJM State & Member Training Dept.

Objectives



Students will be able to:

- Identify the reporting guidelines and process for Supplementary Status Report (SSR)

Supplementary Status Report

Supplementary Status Report (SSR)

- Provides a instantaneous “snapshot” of:
 - Generating Capacity (GO)
 - Resource limitations within the RTO (GO)
- Used by PJM to perform analysis and prepare a capacity/load/reserve projection when potential for emergencies exist

Supplementary Status Report

- Supplementary Status Reports are requested via the PJM All-Call
 - When PJM Dispatch requests a Supplementary Status Report, a time will be specified for providing the information on the report
 - Members are obligated to provide information that applies to them
 - Usually within 10 minutes
 - Reporting period will remain open for a reasonable amount of time
 - PJM will follow up with “non-reporters”

Supplementary Status Report

- eDART is generally the preferred and most common method for reporting Supplementary Status Report data
 - Fax to the PJM Control Room or telephone reporting to the Master Coordinator could be used as an alternate method
 - Supplementary Status Report form is available in [PJM Manual 13: Emergency Operations, Attachment C](#)
 - Also serves as the reference document for Supplementary Status Report terminology

Supplementary Status Report

- Data to be reported:
 - Part A: Instantaneous Capacity Check (eDART & hard copy)
 - Part B: Energy Loaded (hard copy)
 - Part E: Capacity Changes to Part A Capacities (hard copy)
 - Part F: Expected Additional Capacity (hard copy)
 - Part G: Resource Limited Units (eDART & hard copy)



Supplementary Status Report



Part A: Instantaneous Capacity Check

- Provides real-time picture of the ***actual available capacity***
 - Only includes the actual available capacity at the specified time
 - Any unavailable capacity (i.e. start failure, partial de-rate, etc.) should not be included in Part A
 - Should be reported in Part E: Capacity Changes
- Broken down into two categories:
 - ***On Cost***
 - Loaded following economic dispatch
 - ***Max Emergency***
 - Capacity classified as Max Emergency and only loaded if PJM requests Max Emergency

Supplementary Status Report



Categories of Units

- ***Nuclear:*** Net capacity of all nuclear units synchronized at time of Supplementary Status Report (On-Cost and Max Emergency)
- ***Fossil:*** Net capacity of all fossil units synchronized, including combined cycle, at time of Supplementary Status Report (On-Cost and Max Emergency)
- ***Hydro:*** Net capacity of all hydro units synchronized at time of Supplementary Status Report (On-Cost only)
- ***CT/Diesels:*** Net capacity of all CT / Diesel units synchronized at time of Supplementary Status Report (On-Cost and Max Emergency)

NOTE: Quick-Start (Hydro and CT/Diesel) units that can be started and synchronized within ten minutes of the time specified are to be considered “on cost”

Supplementary Status Report



Part B: Energy Loaded

- Total amount of energy already loaded at time of Supplementary Status Report
 - Includes all energy classified as On Cost and Max Emergency

Supplementary Status Report



Part E: Capacity Changes to Part A Capacities

- To inform PJM of any changes to units included in Part A:
 - Actual available capacity change in the following 24 hours
 - And changes > 300 MW within the next 72 hours
 - **Name:** unit(s) that are expected to change
 - **Old Capacity:** as reported in Part A
 - **New Capacity:** expected capacity of unit
 - **Date \ Time:** when change is expected to be completed
- Allows PJM to accurately forecast expected capacity for the specified operating day(s)

Supplementary Status Report



Part F: Expected Additional Capacity

- To inform PJM of units expected to synchronize to the system to provide additional capacity for the specified Operating Day(s)
 - Actual clock time unit is expected to synchronize
 - Indicate “ME” for Max Emergency units in the “Expected Time to Synchronize” column
 - Should also include CTs that take longer than 10 minutes to synchronize
 - Can be totaled and reported as a single entry
 - Changes to those units whose capacities were reported in Part A, should not be included

Supplementary Status Report



Part G: Resource Limited Units

- Update PJM on units that currently have limited resource (fuel, water, etc.) amount
 - Unit is resource limited if not capable of running at rated capacity for more than 72 hours
 - Should also be placed in Part A under their appropriate category
 - Generally, resource limited units should be placed in Max Emergency to preserve for when they are needed most

Supplementary Status Report



Part G: Resource Limited Units

- Unless directed otherwise by PJM, the following units that are bid in and running for PJM must be placed into Max Emergency following completion of the SSR Part G if a **Cold Weather** or **Hot Weather** Alert has been issued:
 - Steam units with less than 32 hours at max capacity
 - Oil, Kerosene or Diesel combustion turbines with less than 16 hours at max capacity
 - Gas fired combustion turbines with less than 8 hours at max capacity
- PJM Master Coordinator should also be informed by phone if any units have reached this status

Supplementary Status Report



Part G: Resource Limited Units

- Information needed:
 - ***Unit Name:*** name of unit(s)
 - ***Fuel Type***
 - ***Max Capacity:*** current maximum capacity
 - ***Emergency Minimum:*** If unit can't cycle due to uncertainty of starting up again, Emergency minimum must be included with a note in the Comments section
 - ***Current Energy:*** current MW output
 - ***Total Burn Hours Remaining:*** total burn hours remaining at max capacity from time of SSR
 - ***Comments:*** If limited for resource other than fuel, note in this column

Supplementary Status Report Exercise – **COLD WEATHER ALERT**

Control Zone	Gen	Fuel Type	Emerg Min	Eco Min	Eco Max	Emerg Max	Current MW output	Max Run Time at Eco Max	Comment	TTS (Min)
AEP	Columbus	Hydro	5	10	250	250	0	74 Hrs..		5
AEP	Lexington	Fossil	200	225	700	750	680	7 Days		360
AP	Bedford	Fossil	80	100	300	310	210	5 Days		20
CE	Elmwood	Nuclear	1200	1200	1200	1200	1200	9 Mos.		5760
DAY	Whitehouse	Hydro	50	70	440	440	0	30 Hrs..	Environmental Req.	14
DLCO	Pleasantville	CT	0	0	70	70	45	6 Hrs..	Fuel delivery tomorrow	0
DOM	Richmond	CT	0	20	600	600	0	90 Hrs..		7
DOM	Corolla	CT	0	5	25	30	0	24 Hrs..	Fuel delivery in 24 hours	2
PJMCZ	Elizabeth	Fossil	100	200	590	600	410	30 Hrs..	Frozen Coal Piles	720
PJMCZ	Lebanon	Fossil	300	400	1150	1200	620	10 Days		1200

SSR Exercise

Given the portfolio:

- Fill out the SSR report in eDART with the following information:
 - On Cost Capacity
 - Max. Emergency Capacity
 - Resource Limitations

SSR Exercise – Cold Weather Alert Declared

	PJM CZ		AEP		AP		CE		DAY		DLCO		DOM	
	On Cost	Max Emerg	On Cost	Max Emerg	On Cost	Max Emerg	On Cost	Max Emerg	On Cost	Max Emerg	On Cost	Max Emerg	On Cost	Max Emerg
Diesel/CT														
Hydro														
Nuclear														
Steam/Fossil														
Totals														

SSR Exercise – Resource Limitations

Add New Resource Limitation	
Generation Type:	Hydro
Unit Name:	Whitehouse
Capacity:	440 MW
Total Hrs. Remaining @ MEG:	30
Comments:	Environmental requirements

SSR Exercise – Resource Limitations

Add New Resource Limitation	
Generation Type:	CT
Unit Name:	Pleasantville
Capacity:	70 MW
Total Hrs. Remaining @ MEG:	6
Comments:	Fuel delivery scheduled for tomorrow

SSR Exercise – Resource Limitations

Add New Resource Limitation	
Generation Type:	CT
Unit Name:	Corolla
Capacity:	30 MW
Total Hrs. Remaining @ MEG:	24
Comments:	Fuel delivery in 24 hours

SSR Exercise – Resource Limitations

Add New Resource Limitation	
Generation Type:	Fossil
Unit Name:	Elizabeth
Capacity:	600 MW
Total Hrs. Remaining @ MEG:	30
Comments:	Frozen coal piles

Questions?

PJM Client Management & Services

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Website: www.pjm.com



The Member Community is PJM's self-service portal for members to search for answers to their questions or to track and/or open cases with Client Management & Services