

PJM Compliance Bulletin

CB006 PJM Control Room Interactions

This Compliance Bulletin provides an explanation of the interactions and coordination between operators in PJM's control room as they relate to the NERC functional model responsibilities. This document is not meant to supplant any PJM or Member Agreements, PJM Manuals or the PJM TO-TOP Reliability Matrix. Any discrepancies or conflicts should be resolved giving priority to those documents, as appropriate. The content of this document does not replace any obligations in any other PJM document.

Control Room Positions

PJM staffs its control rooms with the following identified positions and general responsibilities:

Shift Supervisor – Leadership and technical expertise for all control room activities,

Reliability Engineer – Next day outage analysis, Interaction with neighboring areas, Network Applications support

Power Dispatcher – Transmission system security, Transmission outage coordination, Voltage Control

Generation Dispatcher – Real-time Load/Generation Balancing, Reserve monitoring and deployment, Generation redispatch

Master Coordinator – Load forecasting, Generator Outage Processing, Next day generation scheduling, Interchange coordination

PJM also identifies an operator title of Master Dispatcher, which is an operator who is cross-trained at both the Power Dispatcher and Generation Dispatcher position.

The control room positions have been established based on delineation of tasks considering workload, efficiency, job knowledge required, tools utilized and control room communication. This delineation does not directly correlate (1 operator/position to 1 function) with the NERC functional model definitions/titles.

At PJM, the Shift Supervisor has the ultimate responsibility for ensuring compliance with applicable NERC Standards for these functional areas.

Coordination & Communication

PJM operates two control rooms (Valley Forge/AC1 and Milford/AC2) concurrently. Though the two currently operating control centers are physically separated, the two control rooms operate as one coordinated team. There is a live videoconferencing connection between the two control

rooms at multiple positions which is active at all times. Outside phone calls ring and can be answered at both control rooms through a common and redundant phone turret system. The PJM Shift Supervisor may be located at either facility.

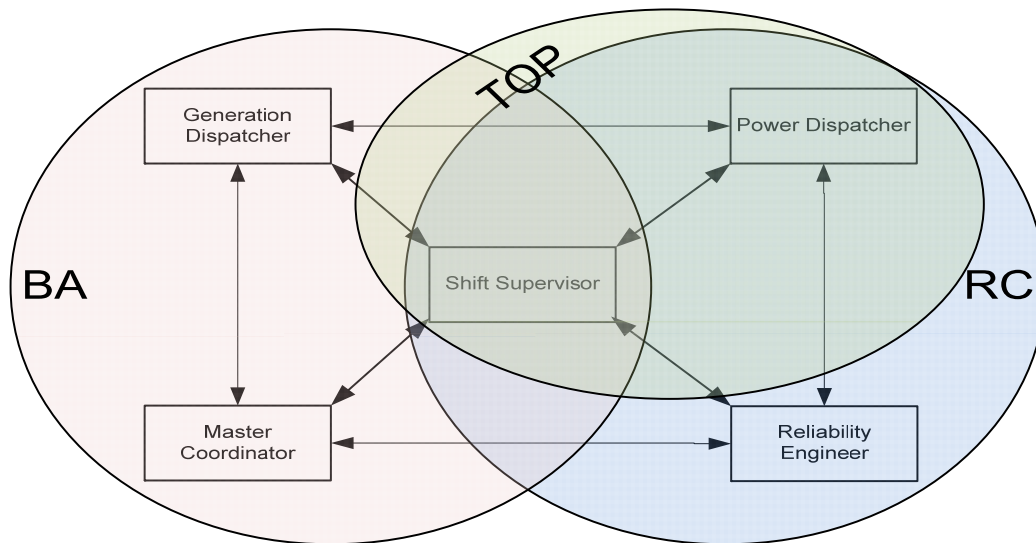
In addition to the voice communication described above, the operators at both control rooms utilize a common set of operating tools and Energy Management System. Also, the Generation Dispatcher and Power Dispatcher routinely utilize common dispatch tools for generation dispatch and constraint control through off-cost redispatch of generation.

All operators share a common electronic logging tool. Utilizing common toolsets provides a common level of situational awareness across positions. Although the operators share most of the same tools, responsibilities are delineated by task and geographic region in many cases. It is through this close coordination that PJM can reliably perform all the tasks of the Reliability Coordinator (RC), Transmission Operator (TOP) and Balancing Authority (BA) from these two control rooms.

Additionally, because these two centers can work seamlessly together using either data center to feed their applications, each center is the back-up for the other center.

Communication & Coordination Paths

The diagram below shows the interaction between the control room positions at PJM. These interactions include extensive dialogue and data exchange between operators working at these positions:



The positions can be staffed at either location, although minimum staffing of each site is maintained to ensure at least 1 Generation Dispatcher and 1 Power Dispatcher are at each site to cover the RC, TOP and BA functions in the event of the loss of either site.

Development History

Revision: 8	Date: 08/10/2023
SME:	Donnie Bielak, Sr. Manager, Dispatch
Author	Gizella Mali, Sr. Analyst II, NERC Compliance
Reviewers:	Kevin Hatch, Manager, Reliability Engineering, Tom Foster, Sr. Manager, NERC Compliance
Approver:	Michael Del Viscio, Ex. Director, Regulatory Compliance
Reason for Change:	Periodic review. Removed Document Retention section. Updated SME and reviewers accordingly.

Revision: 7	Date: 08/12/ 2021
SME:	Rebecca Carroll, Director, Dispatch
Reviewers:	Donald Bielak, Manager, Reliability Engineering, Tom Foster, Manager, NERC Compliance, Gizella Mali, Sr. Analyst II, NERC Compliance
Approver:	Michael Del Viscio, Sr. Director, Compliance & Reliability Standards
Reason for Change:	Regularly scheduled review. Document Retention section updated from 4 to 7 years.

Revision: 6	Date: April 1, 2019
Author:	Chris Pulong, Director, Dispatch Operations
Reviewers:	Donald Bielak, Manager, Reliability Engineering Tom Moleski. Sr. Compliance Specialist, Reliability Compliance Mark Holman, Manager, Reliability Compliance
Approver:	Mike Del Viscio, , Sr. Director, Compliance & Reliability Standards
Reason for Change:	Regularly scheduled review. Errata only.

Revision: 5	Date: 05/23/2016
Author:	Chris Pulong, Director, Dispatch Operations
Reviewers:	Phil D'Antonio, Manager, Reliability Engineering Mark Holman, Manager, NERC and Regional Coordination
Approver:	Rob Eckenrod, Chief Compliance Officer
Reason for Change:	Annual review of document, clarify minimum staffing requirements at the Valley Forge and Milford sites.

Revision: 4	Date: 04/25/2014
Author:	Mike Bryson, Executive Director, System Operations
Reviewers:	Chris Pulong, Director, Dispatch Operations Stephanie Monzon, Manager, NERC and Regional Coordination
Approver:	Tom Bowe, Executive Director, Reliability Integration Division
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Revision: 3	Date: 05/15/2012
Author	Mike Bryson, Executive Director, System Operations
Reviewers:	Adam Keech, Director, Dispatch Operations Stephanie Monzon, Manager, NERC and Regional Coordination
Approver:	Tom Bowe, Executive Director, Reliability Integration Division
Reason for Change:	Annual review of document. Changed "Remote Backup" to "Virtual Backup"

Revision: 2	Date: 01/12/2011
Author	Mike Bryson - General Manager, Dispatch Operations
Reviewers:	T. Burns - Supervisor ,System Operations Patrick Brown - Manager, NERC and Regional Coordination Steve McElwee - Manager, IT Security
Approver:	Tom Bowe - Executive Director, Reliability Integration Division

Reason for Change:	Revised as a part of the annual review of compliance bulletins. Control Room Diagram updated to indicate "Remote Back up Control Center"
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Revision: 1	Date: 05/17/2010
Author	Mike Bryson, General Manager, Dispatch Operations
Reviewers:	Patrick Brown, Manager, NERC and Regional Coordination Steve McElwee, Manager, IT Security
Approver:	Tom Bowe, Executive Director, Reliability Integration Division
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Revision: 0	Date: 02/03/2010
Author	Mike Bryson, General Manager, Dispatch Operations
Reviewers:	Patrick Brown, Manager, NERC and Regional Coordination
Approver:	Tom Bowe, Executive Director, Reliability Integration Division
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