

Robert O. Hinkel

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Qualification Highlights

Electrical engineer with significant experience in integrated utility and independent system operator activities including leadership roles in planning, operations, information systems and project management. Experience in rate making and regulatory activities at state and federal level.

Professional Experience and Accomplishments

Independent Consultant – May 2007 – Present

Self-employed as an independent consultant focused on energy industry activities. Specific engagements detailed below.

Investor Owned Utility – development of NERC standards training material

- Sr. Consultant on a project team tasked with the development of executive and employee training material for NERC standards and compliance. Developed and delivered material covering NERC standards process and compliance / enforcement activities.

PJM transmission owner – review of compliance for PJM delegated tasks

- Sr. Consultant on a project tasked with the analysis of client documentation, training and procedures in support of compliance with responsibilities delegated under the PJM Transmission Owner Agreement. Provided recommendations for improved documentation and procedures to ensure clear evidence of compliance.

PJM Interconnection, LLC – comprehensive review of long term planning staffing, processes and support systems

- Sr. Consultant and project leader for a 5 person team evaluating staffing levels and training, processes and technical support systems for PJM's reliability and generation interconnection planning division. Provided recommendations for staffing and staff development, process improvements and modifications to existing support tools.

Midwest ISO – support for evaluation of Western Market Expansion

- Sr. Consultant on a project team evaluating options and impact for the potential integration of new market participants into Midwest ISO. Identified tariff, technical system, settlement and agreement changes required to support integration of new market participants.

PJM Interconnection LLC – Media Relations Support

- Sr. Consultant responsible for providing public meeting presentations in support of transmission line siting activities.

Electric Power Education – Overview of United States Bulk Power System Operation for Shaanxi Province (China)

- Sr. Consultant responsible for development and delivery of an overview of bulk power system operations for personnel of Shaanxi Province.

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PJM Interconnection, LLC – September 1998 – May 2007

PJM Interconnection is a regional transmission organization (RTO) that coordinates the movement of wholesale electricity in all or parts of 13 states and the District of Columbia. PJM dispatches more than 160,000 MW of generation capacity and operates more than 56,000 miles of transmission lines. PJM's more than 500 members include transmission owners, generation owners, market participants, load servers and regulatory groups.

General Manager – Regional Operations, September 2005 – May 2007

- Responsible for a staff of 80 professionals in two operations centers managing real-time and mid-term operation of the PJM system (transmission and generation) to ensure reliability and overall market efficiency.
- Primary PJM contact for various markets and operations stakeholder groups. Responsible for issue management, regulatory communications and general customer educational activities.
- Team leader for NERC readiness assessment and ReliabilityFirst compliance audit of PJM Balancing Authority, Transmission Operator and Reliability Coordinator functions.

Manager – PJM West / General Manager – RTO Integration, 2001 – 2005

- Technical manager for the integration of Allegheny Power, Commonwealth Edison, American Electric Power, Dayton Power and Light, Duquesne Light Company and Dominion Virginia Power into PJM. Responsible for overall project management of PJM internal resources, vendors and contractors and a project budget of more than \$124 million. Directed all phases of system development from initial design through integration testing and system cutover.
- Primary technical liaison between PJM and the joining members. Coordinated customer readiness activities including system integration, transaction conversion and regulatory activities to integrate new members. Served as PJM spokesperson for stakeholder discussions of integration and for customer integration activities.
- Provided regulatory testimony and participated in hearings with Pennsylvania, Kentucky, Indiana, Virginia, North Carolina and FERC.

Manager – Capacity Adequacy Planning, 1998 – 2001

- Directed analytical activities of PJM staff and consultants in support of PJM's Reliability Assurance Agreement (RAA)
- Primary PJM liaison to the RAA stakeholder group and facilitated discussion of various reliability issues and system requirements. Managed support of retail choice initiatives within all PJM jurisdictions and provided communication with the PJM Board of Managers on adequacy issues

Pennsylvania Power and Light Company (PPL Electric Utilities) – 1971 – 1998

Pennsylvania Power and Light (PPLEU) is an investor owned utility serving 1.4 million customers in a service territory of 10,000 square miles in central-eastern Pennsylvania.

Manager – Delivery Planning and Operations / T & D Operations, 1997 – 1998

- Responsible for the leadership of personnel involved in all aspects of electrical system planning, transmission tariff administration, protection and control support and daily operations of the PP&L transmission and distribution system. Annual department budget \$12.5 million. Departmental personnel – 120.
- Team leader of Electric Delivery group long term direction team. Team activities include development of long range strategies for delivery services and associated business growth

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activities, development of initiatives to achieve strategic success and implementation planning for the strategic plan.

Manager – T & D Operations, 1995 – 1997

- Responsible for activities associated with the monitoring and operations of PP&L transmission and distribution facilities. Annual operating budget of \$4.5 million. Department personnel – 50.
- Member of Pennsylvania Retail Choice restructuring support team. Responsible for interrogatory response and testimony preparation in areas related to Code of Conduct, PJM issues and transmission tariffs.

Manager, Senior Project Engineer, Engineer -- Operations, 1971 – 1995

- Member (chairman for three years) of a corporate information management strategy team responsible for establishing principles for information system development and maintenance
- Assistant Project Manager, Power Management System -- Directly responsible for software activities associated with a \$52 million project to replace electrical system monitoring and control computers in 7 locations.
- Engineering and operating department positions including Engineer, Project Engineer and Manager in support of operations planning and process control computer systems

Education and Training

Bachelor of Science, Electrical Engineering – Drexel University

Registered Professional Engineer (electrical) in Pennsylvania.

Regulatory Activities

1/11/06 – Direct testimony in District of Columbia Public Service Commission Formal Case 144, Emergency Application of Potomac Electric Power Company for a Certificate of Public Convenience and Necessity...

1/21/05 – Direct Testimony in North Carolina Utility Commission hearing Docket E-22, Subpart 418 on Dominion North Carolina petition to join PJM

11/2/04 – Direct Testimony in FERC docket ER04-718 “Hold Harmless” proceedings with American Electric Power

7/15/04 – Direct Testimony in FERC docket ER04-1072 “Hold Harmless” proceedings with Commonwealth Edison

10/14/03 – Virginia Commission on Electric Utility Restructuring -- *“The Blackout of 2003 and why Virginia’s systems were not negatively impacted”* – panel discussion

10/03 *“An Engineering Perspective on the Blackout of 2003”* sponsored by ASME, the Institute of Electrical and Electronics Engineers, and the United States Energy Association – panel discussion.