

JOB DESCRIPTIONS

Job Title	Reports To	Job Description
SYSTEM PLANNING AND SERVICES		
Director, System Planning and Services	VP, Electric Delivery	<p>The Director, System Planning and Services, manages the system planning and services staff. The director is responsible for the planning of all electric transmission, substation, high voltage distribution and major electric distribution facilities throughout the MidAmerican system. Furthermore, the director develops strategy and business plans for efficient, safe, reliable, regulatory-compliant utilization of the transmission system that promotes revenue enhancement; manages the business use of the company's high-voltage distribution and transmission assets, including existing and new interconnections; directs and participates in development of and revisions to MidAmerican's attachment O, MM and GG rate templates of MISO's open access transmission tariff, interconnection agreements, operating agreements, joint-ownership agreements, facility agreements and associated regulatory filings; directs the handling of requests and the processing of transmission-related agreements and the development of transmission-related rates and charges; represents the company's interest in regional transmission-related forums.</p> <p>Additional responsibilities include participation in regional transmission planning, ensuring that all employees remain actively involved with neighboring utilities and other industry and professional organizations and leading the development of a transmission planning process to meet FERC regulations and NERC standards and the implementation of such a process. The director also recommends and implements policies affecting the MidAmerican Energy delivery system.</p>
Senior Transmission Analyst	Director, System Planning and Services	<p>The Senior Transmission Analyst directs and participates in the development of and revisions to transmission tariffs, interconnection agreements, facility agreements, operating agreements and joint ownership agreements, draft the required FERC filings, and administer the pertinent provisions of those agreements. Develops transmission-related rates and charges in conformance with FERC-mandated formula rate protocols. Prepare service and operating agreements and associated FERC filings under transmission tariffs. Develops transmission revenue budgets. Administers the MISO transmission settlements process, including submission of billing determinants to MISO, shadow settlement, review of MISO monthly revenue deposits and accounting for</p>

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		such deposits. Develops quarterly over/under updates of transmission revenues received as compared to the allowed revenues under the MISO tariff. Develops O&M budget and initiatives for the Compliance and Services organization. Develops monthly reviews of budget status and initiative status for all Responsibility Centers in Compliance and Planning. Serves as lead administrator for operational documents and messages posted on MidAmerican's OASIS site. Participates in regional organizations, such as MISO.
Engineer II – Transmission Services	Director, System Planning and Services	The Engineer II – Transmission Services provides engineering and economic analysis on projects related to interconnections and transmission services. Participates in the development of and revisions to the Midwest ISO open access transmission tariff (OATT), interconnection agreements, facility agreements, operating agreements and joint ownership agreements. Participates in updating MidAmerican’s portion of the Midwest ISO’s open access same time information system (OASIS) and monitors OASIS compliance. Responsibilities include applying prescribed methods and standard practices consistent with regulatory compliance when performing specific tasks within projects and assisting department staff on more complex projects.
Principal Engineer – System Planning	Director, System Planning and Services	The Principal Engineer – System Planning provides highly skilled engineering services in the following areas: planning electric transmission and distribution systems; conducting power flow, power stability, reliability, and economic evaluation studies, separately and in conjunction with other utilities; conduct harmonics and other power quality studies; preparing and negotiating contracts; coordinating electric system planning approaches with power system protection design, engineering design, and operational approaches; system disturbance analysis; investigating and solving highly technical, complex and unique engineering problems requiring creative and imaginative thinking.
Engineer I – Electric System Planning	Director, System Planning and Services	The Engineer I – Electric System Planning performs specific engineering tasks and assignments in support of electric system planning. Performs specific engineering tasks and assignments in support of system planning. Responsibilities include assisting in the review of studies prepared by the regional transmission organization of transmission service requests, assisting with distribution impact studies, providing planning support for electric system construction and operation, providing estimates of typical failure and repair rates for facilities, assisting with reliability analyses, making recommendations on appropriate facilities, and supporting the transmission planning process to meet Federal Energy Regulatory Commission (FERC) regulations and North American Energy Regulatory Corporation (NERC) standards. Assists with the preparation of stability analyses, PROMOD analyses, and other system assessments as required.
Engineer II – Electric System Planning	Director, System Planning and Services	Work responsibilities for the Engineer II - Electric System Planning include reviewing studies of the impacts of transmission service requests that are one month or longer on MidAmerican’s electric system on the control area to control area paths and providing comments on the

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		<p>disposition of such requests with regard to such impacts. An Engineer II also prepares distribution system impact study information in support of system impact study agreements, distribution system impact studies and develops available transmission capability components; develops analyses of the MidAmerican electric system, including power flow studies and long range plans; recommends electric system projects and expenditures, and assists in coordinating the electric engineering capital budget; participates in inter-utility and regional transmission planning and the development of interconnection agreements, provides planning support for electric system construction and operation, including technical support for voltage and power quality analyses, and develops area transmission plans as part of the transmission planning process to meet FERC regulations and NERC standards. An Engineer II prepares stability analyses, PROMOD analyses, and other system assessments as required. An Engineer II also prepares reliability analyses of electric systems including generation, transmission and distribution facilities; analyzes and interprets facility outage data and provides estimates of typical failure and repair rates for facilities; makes recommendations on appropriate equipment spares; prepares reliability based standards and recommends improvements in electric system planning methods to reflect state-of-the-art reliability methods.</p>
<p>Senior Engineer – Electric System Planning</p>	<p>Director, System Planning and Services</p>	<p>Work responsibilities for the Senior Engineer – Electric System Planning include reviewing studies prepared by the independent transmission service coordinator of the impacts of transmission service requests that are one month and longer on MidAmerican's electric system, on the control area to control area paths and/or on the mid-continent area power pool flowgate facilities and providing comments on the disposition of such requests with regard to such impacts. A Senior Engineer also prepares distribution information in support of system impact study agreements, distribution system impact studies and develops available transmission capability components; develops analyses of the MidAmerican electric system, including power flow studies and long range plans; recommends electric system projects and expenditures and assists in coordinating the electric engineering capital budget; participates in inter-utility and regional transmission planning and the development of interconnection agreements; provides planning support for electric system construction and operation, including technical support for voltage and power quality analyses; and the development of transmission plans to meet FERC regulations and NERC standards. A Senior Engineer leads the preparation of stability analyses, PROMOD analyses, and other system assessments, as required. A Senior Engineer also prepares reliability analyses of electric systems including generation, transmission, and distribution facilities; analyzes and interprets facility outage data and provides estimates of typical failure and repair rates for facilities; makes recommendations on appropriate equipment spares, and reliability analysis methods; prepares reliability based standards and recommends improvements in electric system planning methods to reflect state-of-the-art reliability methods; and develops and makes recommendations on value-based planning methods.</p>

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Senior Engineering Specialist – Electric System Planning	Director, System Planning and Services	The work responsibilities for the Senior Engineering Specialist – Electric System Planning include providing support for NERC and FERC compliance, analyzing performance of the electric distribution and transmission system using power flow models, preparing evaluations of potential system enhancements, preparing written recommendations, reviewing customer distributed generation installations and processing interconnection requests, calculating feeder cable ampacity ratings and producing the annual automatic load book, which is a listing of recorded loadings on circuits and substations on or about the summer peak load. The Senior Engineering Specialist also supports the following computer applications: historical data base of energy management system information, high voltage outage for collecting and summarizing high voltage outages, SynerGEE for power flow modeling of the electric distribution system, G-Tech for mapping and facilities management. These applications are either directly used or their output is used by System Planning.
Engineering Specialist - System Planning	Director, System Planning and Services	The work responsibilities for the Engineering Specialist – System Planning include providing support for NERC and FERC compliance, analyzing performance of the electric distribution system using power flow models, preparing evaluations of potential system enhancements, preparing written recommendations and providing support for the annual automatic load book, which is a listing of recorded loadings on circuits and substations on or about the summer peak load. The Engineering Specialist also provides support for the following computer applications: historical data base of energy management system information, high voltage outage for collecting and summarizing high voltage outages, SynerGEE for power flow modeling of the electric distribution system and G-Tech for mapping and facilities management. These applications are either directly used or their output is used by electric system planning.
SYSTEM CONTROL		
Director, System Control	VP, Electric Delivery	The Director, System Control, leads the operation of the electric control center, which is responsible for the real-time, daily operation of MidAmerican Energy Company’s transmission and distribution systems. Distribution control employees provide 24x7 assessment and dispatch of emergency electric orders. Transmission control center employees monitor and operate the electric transmission system to ensure electric system reliability and security. Employees monitor both internal system conditions as well as external system conditions at the interconnection points of MidAmerican’s local balancing area and make adjustments to system components to ensure system reliability and security. The Director, System Control is responsible for ensuring that all control center functions and the transmission system operate in compliance with the North American Electric Reliability Corporation reliability and cybersecurity standards. Position responsibilities include the preparing for periodic regulatory audits, knowing reporting requirements, ensuring self-reporting compliance, implementing audit recommendations, ensuring compliance with the Federal Energy

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		Regulatory Commission Standards of Conduct, assuming project management ownership of delivery-wide projects, acting as a MidAmerican Energy contact for the Midwest Reliability Organization (MRO), Midwest Independent Transmission System Operator (MISO), and other duties as assigned.
Engineer II - Control Center	Director, System Control	The Engineer II – Control Center provides engineering services for MidAmerican’s electric system operations. Responsibilities include project management, real time network applications use and providing engineering support for the energy management system.
Engineer I – Control Center	Director, System Control	The Engineer I – Control Center provides specific engineering services in support of MidAmerican Energy Company’s electric system operations. Responsibilities include applying prescribed methods and standard practices in performing specific tasks within projects and assisting engineering staff on more complex projects.
Principal Engineer - System Operations	Director, System Control	The Principal Engineer – System Operations provides engineering services for system operations. The principal engineer provides highly technical engineering services and directs the work of others for the planning, design and construction of project additions to MidAmerican Energy Company’s energy management system. Responsibilities include project management and guiding the engineering staff for all phases of project additions; overseeing and guiding engineering staff in project management and design and problem resolution of complex engineering problems.
Senior Engineer - Control Center	Director, System Control	The Senior Engineer – Control Center provides engineering services for system operations. The senior engineer provides highly technical engineering services and directs the work of others to support the reliable and efficient operations of the electric system while maintaining compliance with applicable NERC reliability standards. Responsibilities include overseeing and guiding operations and engineering staff in problem resolution of complex engineering problems.
Manager, Transmission Operations	Director, System Control	The Manager, Transmission Operations, manages the operation of MidAmerican Energy’s 34.5kV to 345kV systems, as well as the local balancing authority for MidAmerican and neighboring utilities within the defined area. This responsibility includes the real-time functions required for the safe, reliable and efficient operation of the MidAmerican Energy transmission system. These functions include managing the transmission operators responsible for monitoring and adjusting transmission system components to ensure reliability as well as the directing of field crews involved in construction/maintenance activities and outage response on the transmission system. The Manager, Transmission Operations ensures that all Local Balancing Authority and Transmission Operations functions are performed in compliance with the North American Electric Reliability Corporation (NERC) reliability and cyber security standards. In addition the Manager, Transmission Operations ensures compliance with the Federal Energy Regulatory Commission (FERC) Standards of Conduct for

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		transmission operations. The Manager, Transmission Operations serves as the primary operational point of contact between MidAmerican Energy and adjacent Local Balancing Authorities, Transmission Operators, Midwest ISO (MISO), and the Midwest Reliability Organization (MRO).
Senior Transmission Operator	Manager, Transmission Operations	The Senior Transmission Operator takes a leadership role in operating the MidAmerican Energy Company's (MEC) Local Balancing Authority (LBA). These responsibilities include coordination with the Midwest Independent Transmission System (MISO) Operations management, for the operation of the Bulk Electric System within system operating limits. Monitors and exercises independent judgment in the operation of the bulk electric power system based on guidelines provided by National Electric Reliability Corporation (NERC) Operating Policies, Regional Council Policies and Operating Procedures, and Federal Energy Regulatory Commissions (FERC) Standards of Conduct for normal, emergency and restoration conditions, as well as local operating practices and procedures. Responsible for the coordination with the MEC electric trading group. Provides key information and operational reports to direct supervision and senior management. Provides direct support for many of the tasks and duties performed by the manager, transmission operations, and fills in during absences.
Transmission Operator	Manager, Transmission Operations	The Transmission Operator monitors and exercises independent judgment in the operation of the bulk electric power system (345 kV and 161 kV systems) based on guidelines provided by the North American Electric Reliability Corporation regional transmission operating policies, Regional Reliability Organization policies and operating procedures and Federal Energy Regulatory Commission's Standards of Conduct for normal, emergency and restoration conditions. This position ensures the safe, reliable and economic operation of the bulk power transmission system by taking appropriate steps to maintain and monitor system operating limits.
Associate Transmission Operator	Manager, Transmission Operations	Under the direction of a transmission operator, the Associate Transmission Operator monitors and operates the bulk electric power system (345 kV and 161 kV systems), based on standards provided by the North American Electric Reliability Corporation regional transmission operator operating procedures and Federal Energy Regulatory Commission's standards of conduct for normal, emergency and restoration conditions. The associate transmission operator provides support to the transmission operator in the area of preparing and instructing switching, alarm response, dispatching, and other areas as directed. This position is intended to be a training position until the employee is fully qualified to operate the system independently as a transmission operator. After 8-12 months as an associate transmission operator, the employee's performance will be reviewed to see if he/she meets the minimum qualifications and performance standards before becoming a transmission operator. The associate transmission operator will be required to achieve proficiency and move to the transmission operator position within 12 months of starting training. Failure to meet these performance standards within 12 months will result in a six-month

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		remedial period. At the end of the remedial period, the associate transmission operator will be evaluated for possible advancement to the transmission operator position. Proficiency will be determined by testing, observation, and ability to acquire NERC certification.
Transmission Outage Coordinator	Manager, Transmission Operations	The Transmission Outage Coordinator acts as the coordinator for all scheduled outages associated with the transmission operations area of responsibility. (This includes all 345, 161, 34.5, and 69 kV lines and related equipment. Also included are all 13 kV buses.) The Transmission Outage Coordinator receives requests for transmission outages, writes, analyzes and approves all scheduled switching on the portions of the bulk power electrical transmission system noted above. Ensures that all parties associated with the scheduled outage are informed of the type, extent and duration of the outage. This includes contacts with foreign utilities, MISO and MidAmerican Energy Company distribution operations.
BUSINESS SUPPORT		
Business Support Analyst II	General Manager, Delivery Assurance and Strategic Planning	The Business Support Analyst II provides a wide range of financial analysis and support to business. Conducts complex research and support in areas of cost control, business performance evaluation and evaluation of capital investment decisions. Provides support in development of and revisions to transmission tariffs, interconnection agreements, operating agreements, joint ownership agreements and FERC filings. The business support analyst II partners with business leadership to provide solutions to complex business needs ranging from strategic initiative evaluation and process changes to transmission service pricing and support of FERC filings.