MidAmerican ENERGY
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Job Descriptions

Job Title	Reports To	Job Description
TRANSMISSION SERVICES		
Manager, Transmission Services	VP Compliance & Standards	Develops strategy and business plans for efficient, safe, reliable, regulatory-compliant utilization of the transmission and high-voltage distribution systems that promote 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 the Midwest ISO open access transmission tariff, as well as MidAmerican's Delivery Service Tariff; directs and participates in development of and revisions to MidAmerican transmission interconnection agreements, operating agreements, joint-ownership agreements and facility agreements and associated regulatory filings; directs the administration of transmission-related agreements development of rates and charges transmission and high-voltage distribution; represents the company's interest in regional transmission-related forums.
Senior Transmission Analyst	Manager, Transmission Services	Directs and participates in the development, revision, maintenance and administration of agreements for interconnection of generating or transmission facilities to the MidAmerican transmission system, and of facilities and operating agreements for joint-owned transmission facilities, and drafts any associated regulatory filings required. Develops and applies for FERC approval of transmission and high-voltage distribution rates and charges. Develops and assembles MidAmerican transmission information, as required, for inclusion in the Midwest ISO Open Access Transmission Tariff (“OATT”), or for posting on the MidAmerican node of the Midwest ISO Open Access Same time Information System (“OASIS”); maintains and administers transmission agreements that have been grandfathered under the Midwest ISO OATT, as well as other MidAmerican transmission interconnection and joint ownership agreements; assists, as required, in development of service and operating agreements under the Midwest ISO OATT; serves as lead administrator for operational documents and messages posted on MidAmerican’s homepage on the Midwest ISO OASIS node; administers supplier registrations under MidAmerican’s Supplier Electric Delivery Service Tariff; participates in regional organizations, such as MAPP and the Midwest ISO.
Engineer I-Transmission	Manager, Transmission Services	Participates in the development of and revisions to the Midwest ISO open access transmission tariff, MidAmerican transmission interconnection agreements, facility agreements, operating agreements, joint-ownership agreements and associated regulatory filings. Participates in preparation and support for customer billings and responses to customer inquiries. Participates in updating postings and monitoring regulatory compliance of MidAmerican Energy’s node on the Midwest ISO Open Access Same Time Information System (“OASIS”). Updates and maintains current postings of MidAmerican Energy’s transmission business practices. 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.
Senior Energy Delivery Analyst-Transmission Services	Manager, Transmission Services	Provides technical and business expertise to implement and support the electronic interface between major internal customer support systems that provide the capacity to support competition in an "open access" environment. Uses knowledge of the regulatory environment and various information systems used by transmission and high-voltage distribution customers to provide support for

		software development, implementation, testing, operation and maintenance for transmission and distribution computer systems used for delivery services. Processes scheduling, load profiling and metering data for delivery service billings and related reports. Develops training documents and provide supplier training for delivery service reservations, scheduling, payment processing and electronic data exchange. Handles requests for service, supplier inquiries, and regulatory data requests. Provide support for budgeting functions for Departments reporting to the Vice President – Compliance and Standards.
ELECTRIC SYSTEM PLANNING		
Manager – Electric System Planning	VP Compliance & Standards	The Manager-Electric System Planning provides leadership and vision for electric system planning technical staff. The manager is responsible for the planning of all electric transmission, substation, high voltage distribution and major electric distribution facilities throughout the MidAmerican system. Responsibilities also include participation in development of facilities, interconnection and operating agreements and transmission tariffs and interfacing with the Midwest ISO on the development of system impact studies and agreements, directing inter-utility participation in regional transmission planning, ensuring that all employees are properly trained, ensuring that all employees remain actively involved with neighboring utilities and other industry and professional organizations, and leading the continued development and implementation of a local transmission planning process to meet the Midwest ISO transmission tariff provisions, FERC regulations and NERC standards. The manager represents the company before regulatory and regional groups. The manager provides technical consultative services to other groups within MidAmerican and ensures safety, environmental and regulatory compliance of the department. The manager also recommends and implements policies affecting the MidAmerican Energy delivery system.
Engineer II - Electric System Planning	Manager or Supervisor – Electric System Planning	Work responsibilities for the Engineer II in Electric System Planning include reviewing studies prepared by the Midwest ISO of the impacts of transmission service requests that are one month or longer on MidAmerican's electric system and/or on flowgate facilities. An Engineer II also develops total flowgate 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 local transmission plans as part of the local transmission planning process to meet Midwest ISO transmission tariff provisions, 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.
Senior Engineer-Electric System Planning	Manager – Electric System Planning or Supervisor – Electric System Planning	Work responsibilities for the Senior Engineer in Electric System Planning include reviewing the impacts of studies prepared by the Midwest ISO of the impacts of transmission service requests that are one month and longer on MidAmerican's electric system and/or on flowgate facilities. A Senior Engineer also develops total flowgate 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 local transmission plans as part of the local transmission planning process to meet Midwest ISO transmission tariff provisions, 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.
Supervisor-Electric System Planning	Manager – Electric System Planning	The Supervisor-Electric System Planning provides leadership for assigned Electric System Planning technical staff. The supervisor is responsible for the planning of all electric transmission, substation, high voltage distribution and major electric distribution facilities in assigned areas. Responsibilities also include participation in development of facilities, interconnection and operating agreements and transmission tariffs, interfacing with the Midwest ISO on the development of system impact studies and agreements, directing inter-utility participation in regional transmission planning in assigned areas, ensuring that all assigned employees are properly trained, ensuring that all assigned employees remain actively involved with neighboring utilities and other industry and professional organizations, and leading development of local transmission plans and support the continued development and implementation of a local transmission planning process to meet the Midwest ISO transmission tariff provisions, FERC regulations, and NERC standards. The Supervisor-Electric System Planning also represents the company in assigned areas before regulatory and regional groups.
Senior Engineering Specialist	Supervisor-Electric System Planning	The work responsibilities for the Senior Engineering Specialist in Electric System Planning include providing support for NERC and FERC compliance, preparing power flow models, analyses and plans for electric distribution facilities and preparing 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: HIS data base of energy management system information, SynerGEE for power flow modeling of the electric distribution system, G-Tech for mapping and facilities management, access control matrix (ACM) and CIP SharePoint site. These applications are either directly used or their output is used by Electric System Planning. The Senior Engineering Specialist has full responsibility for project assignments and may initiate planning studies based upon the specialist's review of the distribution system.
Engineering Specialist	Supervisor-Electric System Planning	The work responsibilities for the Engineering Specialist in Electric System Planning include providing support for NERC and FERC compliance, preparing power flow models for electric distribution facilities 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 Delivery	The Director, System Control leads the operation of the electric control center. The electric control center is responsible for the real-time, daily operation of MidAmerican Energy Company's transmission and distribution systems. 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 control area and make adjustments to system components to ensure system reliability and security. Responsibilities include remote operation of substation equipment as well as directing crews in the field involved in construction/maintenance activities and outage response. 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 cyber security 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 Regulatory Commission Standards of Conduct, assuming project management ownership of delivery-wide projects, acting as a MidAmerican Energy contact for the Midwest Reliability Organization and other duties as assigned.
Engineer II-Control Center	Director, System Control	The Engineer II – Control Center provides engineering services for MidAmerican's energy system operations. Responsibilities include project management, real time network applications use and providing engineering support for the energy management system.
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	Provides engineering services for system operations. The Senior Engineer – Control Center provides highly technical engineering services and directs the work of others for the planning, design and construction of project additions to MidAmerican's energy management system. Responsibilities include project management for all phases of project additions; overseeing and guiding engineering staff in project management and design and problem resolution of complex engineering problems. Direct Reports: None Indirect Reports: None
Meter Data Management Agent Lead	Director, System Control	The Meter Data Management Agent ("MDMA") Lead will collect, verify, initiate investigations and format MidAmerican Energy Company's load and generation meter data as required for submission to the Midwest Independent System Operator ("Midwest ISO"), and submit that meter data to the Midwest ISO in a timely manner in accordance with the Midwest ISO's settlement schedule. The MDMA Lead will ensure accurate meter data by working with the technical metering group, telecommunication, information technology and transmission operations. The MDMA Lead will also be the primary contact for questions from municipal utilities, independent power producers, and other MDMA customers regarding meter data collection and reporting accuracy.
Training Coordinator-System Operations	Director, System Control	The Training Coordinator – System Operations has complete responsibility for the management of training in the system operations workgroup. This includes the development and delivery of training programs, safety programs, associated manuals and guides. The position also keeps abreast of the utility industry regulatory requirements and incorporates new developments into the training programs.

Balancing Authority Administrator	Director, System Control	The Balancing Authority Administrator oversees the application of Federal Energy Regulatory Commission or FERC Order 890 and North American Electric Reliability Council or NERC balancing authority responsibilities for MidAmerican Energy Company, develops strategies to implement NERC policy changes relating to balancing authority functions and acts as an interface with utilities, regional reliability organizations, power marketers, computer service vendors and others concerning balancing authority functions. The Balancing Authority Administrator is responsible for overseeing compliance functions related to NERC balancing authority responsibilities.
Transmission Specialist	Director, System Control	The Transmission Specialist reviews, verifies and records daily energy schedules and interchange flows for the MidAmerican energy control area. The Transmission Specialist prepares transmission and control area reports for various entities, as well as for transmission services billing purposes.
Manager, Transmission Operations	Director, System Control	The Manager, Transmission Operations is the jurisdictional authority for 34.5kV to 345kV operation of the MidAmerican Energy transmission system, as well as the 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 the monitoring and adjustments of 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 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 transmission operations. The Manager, Transmission Operations serves as the primary operational point of contact between MidAmerican Energy and adjacent Balancing Authorities, Transmission Operators, Midwest ISO (MISO), Mid-Continent Area Power Pool (MAPP) and the Midwest Reliability Organization (MRO).
Senior Transmission Operator	Manager, Transmission Operations	The Senior Transmission Operator acts as an expert in operating MidAmerican Energy Company's Balancing Authority. Monitors and exercises independent judgment in the operation of the bulk electric power system based on guidelines provided by National Electric Reliability Council (NERC) Operating Policies, Regional Council Policies and Operating Procedures and Federal Energy Regulatory Commissions (FERC) Standards of Conduct for normal, emergency and restoration conditions; ensures safe, reliable and economic operation of the transmission system by taking appropriate steps when a security operating limit violation (SOL) is detected. The Senior Transmission Operator also provides key information and operational reports to direct supervision and senior management. The Senior Transmission Operator provides direct support of many of the tasks and duties performed by the manager, transmission operations.
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 council operating policies, regional council 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 when an operating security limit violation is detected.
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 kV substations, 161/69 kV transformers and all 345 kV and 161kV lines and related devices.) 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, MAPP, MISO and MidAmerican Energy Company distribution operations.